

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---------------------------------------|----------------------------------------|------------------|---------|------------------|
| L1 | 752 | (546/112).CCLS. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2006/07/10 14:10 |
| S1 | 2 | ("6861436").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2006/07/10 11:33 |
| S2 | 4 | ((("6362191") or ("20030153759")).PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2006/07/10 14:10 |

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* * * * * Welcome to STN International * * * * *

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NEWS 3 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 4 APR 04 STN AnaVist \$500 visualization usage credit offered
NEWS 5 MAY 10 CA/CAPLUS enhanced with 1900-1906 U.S. patent records
NEWS 6 MAY 11 KOREAPAT updates resume
NEWS 7 MAY 19 Derwent World Patents Index to be reloaded and enhanced
NEWS 8 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAPLUS and
USPATFULL/USPAT2
NEWS 9 MAY 30 The F-Term thesaurus is now available in CA/CAPLUS
NEWS 10 JUN 02 The first reclassification of IPC codes now complete in
INPADOC
NEWS 11 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and
and display fields
NEWS 12 JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 13 JUL 07 Coverage of Research Disclosure reinstated in DWPI

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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NEWS IPC8 For general information regarding STN implementation of IPC 8
NEWS X25 X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 11:03:26 ON 10 JUL 2006

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CAPLUS' ENTERED AT 11:03:38 ON 10 JUL 2006

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FILE COVERS 1907 - 10 Jul 2006 VOL 145 ISS 3
FILE LAST UPDATED: 9 Jul 2006 (20060709/ED)

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=> s us20040152897

L1 0 US20040152897

=> s us20040152897/pn

L2 1 US20040152897/PN
(US2004152897/PN)

=> d

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:252511 CAPLUS
 DN 140:287263
 TI Synthesis of 3-acylindolizines via cyclization of 2-methyl-1-phenacylpyridinium halides with sterically hindered reagents, and their use as intermediates in the preparation of 1-glyoxylamide indolizines
 IN Sun, Lijun; Koya, Keizo; Xia, Zhi-qiang; Przewlaka, Teresa; Zhang, Shijie;
 Ono, Mitsunori
 PA Synta Pharmaceuticals Corp., USA
 SO PCT Int. Appl., 36 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|----------|
| WO 2004024727 | A2 | 20040325 | WO 2003-US28252 | 20030910 |
| WO 2004024727 | A3 | 20040603 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| CA 2496764 | AA | 20040325 | CA 2003-2496764 | 20030910 |
| AU 2003267071 | A1 | 20040430 | AU 2003-267071 | 20030910 |
| EP 1537105 | A2 | 20050608 | EP 2003-749545 | 20030910 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| CN 1681813 | A | 20051012 | CN 2003-821740 | 20030910 |
| JP 2006504692 | T2 | 20060209 | JP 2004-536391 | 20030910 |
| US 2004152897 | A1 | 20040805 | US 2003-660358 | 20030911 |
| <-- | | | | |
| NO 2005001009 | A | 20050404 | NO 2005-1009 | 20050224 |
| PRAI US 2002-410679P | P | 20020913 | | |
| WO 2003-US28252 | W | 20030910 | | |
| OS MARPAT 140:287263 | | | | |

=> select 12
ENTER ANSWER NUMBER OR RANGE (1-):1
ENTER DISPLAY CODE (TI) OR ?:rn
E1 THROUGH E40 ASSIGNED

| => fil reg | SINCE FILE | TOTAL |
|----------------------|------------|---------|
| COST IN U.S. DOLLARS | ENTRY | SESSION |
| FULL ESTIMATED COST | 5.58 | 5.79 |

FILE 'REGISTRY' ENTERED AT 11:04:06 ON 10 JUL 2006
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STRUCTURE FILE UPDATES: 9 JUL 2006 HIGHEST RN 891170-23-3
DICTIONARY FILE UPDATES: 9 JUL 2006 HIGHEST RN 891170-23-3

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<http://www.cas.org/ONLINE/UG/regprops.html>

=> s e1-e40

1 109-06-8/BI
(109-06-8/RN)
1 1443-80-7/BI
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1 215160-61-5/BI
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1 25314-91-4/BI
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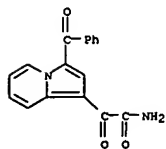
L3

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 55814-02-3/BI OR 55814-14-7/BI OR 618067-79-1/BI OR 675139-18-1/B

I OR 675139-19-2/BI OR 675139-20-5/BI OR 675139-21-6/BI OR 675139-22-7/BI OR 675139-23-8/BI OR 675139-24-9/BI OR 675139-25-0/BI OR 675139-26-1/BI OR 675139-27-2/BI OR 675139-28-3/BI OR 675139-29-4/BI OR 675139-30-7/BI OR 675139-31-8/BI OR 675139-32-9/BI OR 675139-33-0/BI OR 675139-34-1/BI OR 675139-35-2/BI OR 675139-36-3/BI OR 675139-37-4/BI OR 675139-38-5/BI OR 675139-39-6/BI OR 675139-40-9/BI OR 675139-41-0/BI OR 68-12-2/BI OR 77-78-1/BI)

=> d 13

L3 ANSWER 1 OF 40 REGISTRY COPYRIGHT 2006 ACS on STN
RN 675139-41-0 REGISTRY
ED Entered STN: 14 Apr 2004
CN 1-Indolizineacetamide, 3-benzoyl- α -oxo- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H12 N2 O3
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d scan

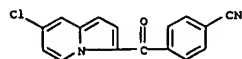
L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Methanone, (4-chlorophenyl)(7-methoxy-3-indoliziny)- (9CI)
 MF C16 H12 Cl N O2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

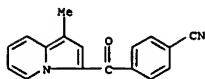
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):39

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Benzonitrile, 4-[(7-chloro-3-indoliziny)carbonyl]- (9CI)
 MF C16 H9 Cl N2 O



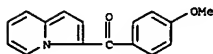
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Benzonitrile, 4-[(1-methyl-3-indoliziny)carbonyl]- (9CI)
 MF C17 H12 N2 O



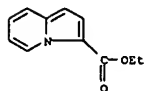
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Methanone, 3-indoliziny-(4-methoxyphenyl)- (9CI)
 MF C16 H13 N O2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 3-Indolizinecarboxylic acid, ethyl ester (9CI)
 MF C11 H11 N O2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Sulfuric acid, dimethyl ester (8CI, 9CI)
 MF C2 H6 O4 S
 CI COM



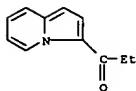
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L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Methanone, (4-fluorophenyl)(7-methoxy-3-indoliziny)- (9CI)
 MF C16 H12 F N O2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 1-Propanone, 1-(3-indoliziny)- (9CI)
 MF C11 H11 N O



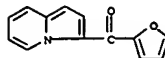
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L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Methanone, 3-indoliziny1(3-methoxyphenyl)- (9CI)
 MF C16 H13 N O2



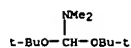
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L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
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 MF C13 H9 N O2



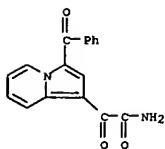
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
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 MF C11 H25 N O2



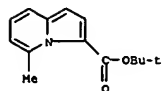
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 1-Indolizineacetamide, 3-benzoyl-α-oxo- (9CI)
 MF C17 H12 N2 O3



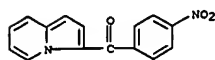
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 3-Indolizinecarboxylic acid, 5-methyl-, 1,1-dimethylethyl ester (9CI)
 MF C14 H17 N O2



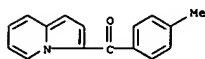
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Methanone, 3-indoliziny(4-nitrophenyl)- (9CI)
 MF C15 H10 N2 O3



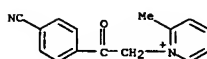
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Methanone, 3-indoliziny(4-methylphenyl)- (9CI)
 MF C16 H13 N O



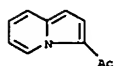
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Pyridinium, 1-[2-(4-cyanophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI)
 MF C15 H13 N2 O . Br



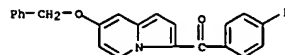
● Br⁻

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Ethanone, 1-(3-indoliziny)- (9CI)
 MF C10 H9 N O



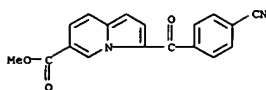
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Methanone, (4-fluorophenyl)[7-(phenylmethoxy)-3-indoliziny]- (9CI)
 MF C22 H16 F N O2



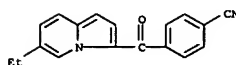
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 6-Indolizinecarboxylic acid, 3-(4-cyanobenzoyl)-, methyl ester (9CI)
 MF C18 H12 N2 O3



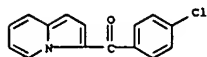
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Benzonitrile, 4-[(6-ethyl-3-indoliziny)carbonyl]- (9CI)
 MF C18 H14 N2 O



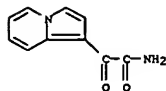
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Methanone, (4-chlorophenyl)-3-indoliziny- (9CI)
 MF C15 H10 Cl N O



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 1-indolizineacetamide, α -oxo- (9CI)
 MF C10 H8 N2 O2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Pyridine, 2-methyl- (9CI)
 MF C6 H7 N
 CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Methanone, (7-chloro-3-indoliziny-1-yl)(4-fluorophenyl)- (9CI)
 MF C15 H9 Cl F N O



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Methanone, (7-chloro-3-indoliziny1)(4-chlorophenyl)- (9CI)
 MF C15 H9 Cl2 N O



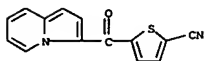
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Benzonitrile, 3-{3-indoliziny1carbonyl)- (9CI)
 MF C16 H10 N2 O



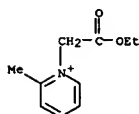
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 2-Thiophenecarbonitrile, 5-(3-indoliziny1carbonyl)- (9CI)
 MF C14 H8 N2 O S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

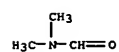
L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, bromide (9CI)
 MF C10 H14 N O2 . Br



● Br⁻

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Formamide, N,N-dimethyl- (8CI, 9CI)
 MF C3 H7 N O
 CI COH



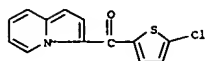
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L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Methanone, (7-fluoro-3-indoliziny1)(4-fluorophenyl)- (9CI)
 MF C15 H9 F2 N O



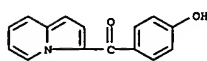
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Methanone, (5-chloro-2-thienyl)-3-indoliziny1- (9CI)
 MF C13 H8 Cl N O S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Methanone, (4-hydroxyphenyl)-3-indoliziny1- (9CI)
 MF C15 H11 N O2



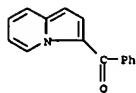
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Benzonitrile, 4-[(6-hydroxy-3-indoliziny]carbonyl)- (9CI)
 MF C16 H10 N2 O2



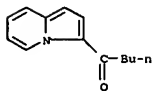
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Methanone, 3-indolizinyphenyl- (9CI)
 MF C15 H11 N O



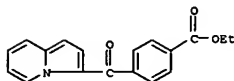
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 1-Pentanone, 1-(3-indoliziny)- (9CI)
 MF C13 H15 N O



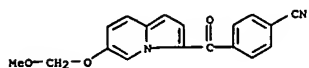
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Benzoic acid, 4-(3-indoliziny]carbonyl)-, ethyl ester (9CI)
 MF C18 H15 N O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Benzonitrile, 4-[[6-(methoxymethoxy)-3-indoliziny]carbonyl]- (9CI)
 MF C18 H14 N2 O3



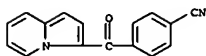
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Methanone, (3,4-dichlorophenyl)-3-indoliziny- (9CI)
 MF C15 H9 Cl2 N O



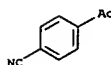
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Benzonitrile, 4-(3-indoliziny)carbonyl)- (9CI)
 MF C16 H10 N2 O



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Benzonitrile, 4-acetyl- (9CI)
 MF C9 H7 N O
 CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> fil stnguide
COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 2.78 | 8.57 |

FULL ESTIMATED COST

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jul 7, 2006 (20060707/UP).

=> fil casreact
COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
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FULL ESTIMATED COST

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FILE CONTENT:1840 - 9 Jul 2006 VOL 145 ISS 2

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9-10 10-11

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 9-10 10-11

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS

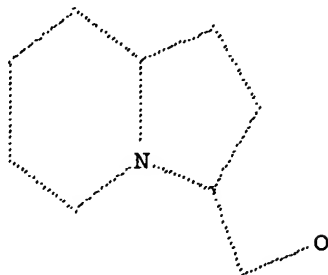
11:CLASS

L4 STRUCTURE UPLOADED

=> d

L4 HAS NO ANSWERS

L4 STR



L5 4 SEA SSS SAM L4 (14 REACTIONS)

=> s 14 full

FULL SEARCH INITIATED 11:06:29 FILE 'CASREACT'

SCREENING COMPLETE - 180 REACTIONS TO VERIFY FROM 42 DOCUMENTS

100.0% DONE 180 VERIFIED 109 HIT RXNS

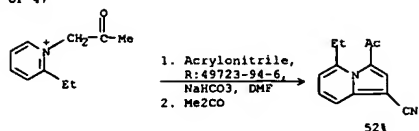
SEARCH TIME: 00.00.01

28 DOCS

L6 28 SEA SSS FUL L4 (109 REACTIONS)

=> d 16 1

RX(2) OF 47



Br⁻
(step 1)

REF: Gaodeng Xuexiao Huaxue Xuebao, 25(8), 1461-1464; 2004
CON: STAGE(1) 4 - 5 hours, 90 - 95 deg C
STAGE(2) 0.5 hours, reflux

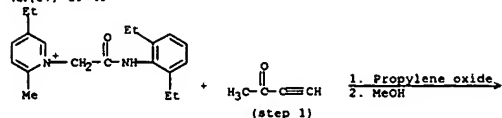
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MISSING OPERATOR L6 2-28

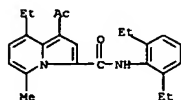
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=> d 16 2-28

RX(17) OF 49

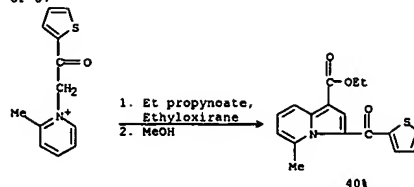


Cl⁻
(step 1)



REF: ARKIVOC (Gainesville, FL, United States) [online computer file],
(2), 30-45; 2002
CON: STAGE(1) 10 - 12 days, room temperature
STAGE(2) overnight

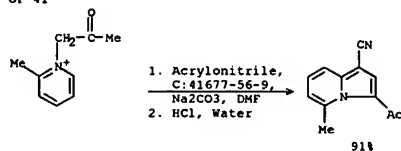
RX(1) OF 37



Br⁻
(step 1)

REF: Revue Roumaine de Chimie, 2001, 46(4), 357-362; 2002
CON: STAGE(1) room temperature; 5 - 8 hours, room temperature
STAGE(2) overnight

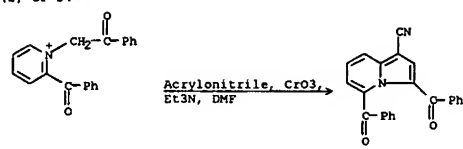
RX(10) OF 41



Br⁻
(step 1)

REF: Journal of Heterocyclic Chemistry, 38(4), 853-857; 2001

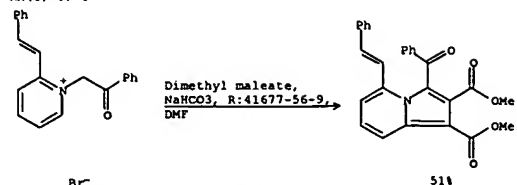
RX(2) OF 34



Br⁻

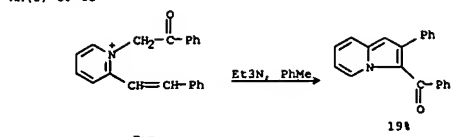
REF: Journal of the Chemical Society, Perkin Transactions 1, (15),
1820-1825; 2001
NOTE: regioselective

RX(1) OF 1



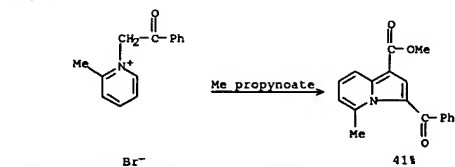
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REF: Journal of Chemical Research, Synopses, (2), 136-137; 1999

RX(1) OF 32



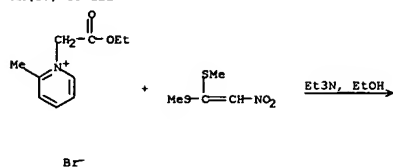
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REF: Synthesis, (1), 166-170; 1999

RX(5) OF 21



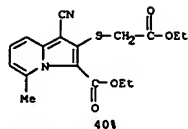
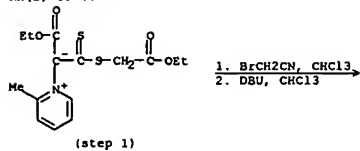
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REF: Journal of Heterocyclic Chemistry, 28(1), 45-8; 1991

RX(18) OF 122



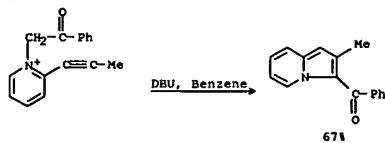
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82%
REF: Journal of Heterocyclic Chemistry, 26(2), 477-87; 1989

RX(2) OF 88



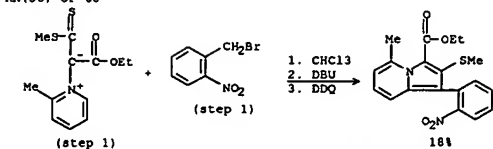
REF: Bulletin of the Chemical Society of Japan, 62(1), 119-27; 1989

RX(1) OF 51



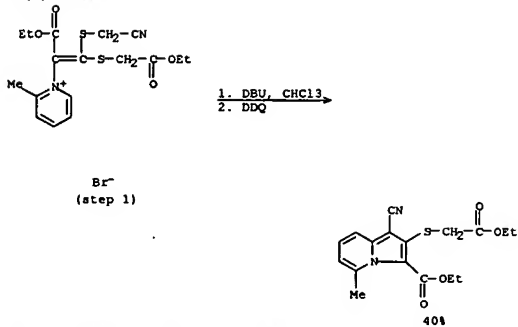
REF: Chemical & Pharmaceutical Bulletin, 36(10), 3826-32; 1988

RX(36) OF 68



REF: Bulletin of the Chemical Society of Japan, 61(6), 2055-61; 1988

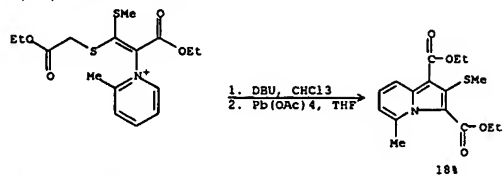
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REF: Chemistry Letters, (10), 2043-6; 1987

L6 ANSWER 14 OF 28 CASREACT COPYRIGHT 2006 ACS on STN

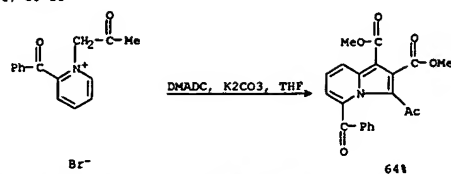
RX(221) OF 270 - 2 STEPS



REF: Bulletin of the Chemical Society of Japan, 60(5), 1867-79; 1987

L6 ANSWER 15 OF 28 CASREACT COPYRIGHT 2006 ACS on STN

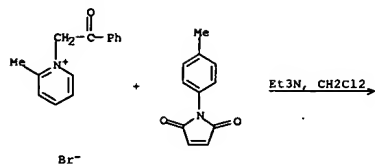
RX(1) OF 18



REF: Heterocycles, 26(1), 199-204; 1987

L6 ANSWER 16 OF 28 CASREACT COPYRIGHT 2006 ACS on STN

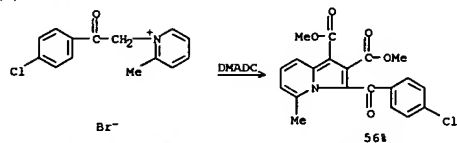
RX(12) OF 128



REF: Bulletin of the Chemical Society of Japan, 58(11), 3137-57; 1985

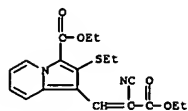
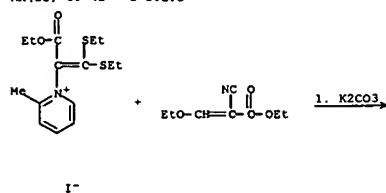
L6 ANSWER 17 OF 28 CASREACT COPYRIGHT 2006 ACS on STN

RX(7) OF 18



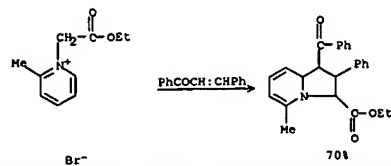
REF: Journal of Chemical and Engineering Data, 30(4), 505-7; 1985

RX(22) OF 42 - 2 STEPS



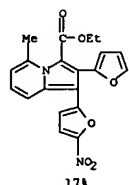
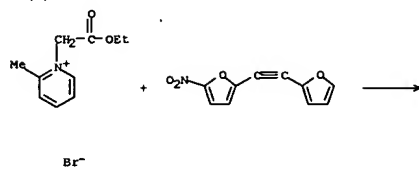
REF: Journal of Organic Chemistry, 47(2), 369-71; 1982

RX(16) OF 52



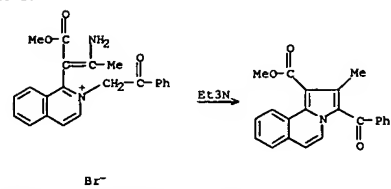
REF: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999), (4), 1180-5; 1981

RX(9) OF 19



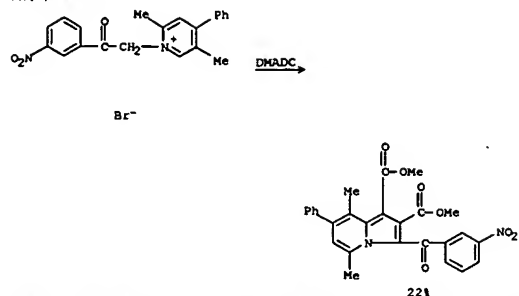
REF: Chemical & Pharmaceutical Bulletin, 27(12), 3078-85; 1979

RX(3) OF 10



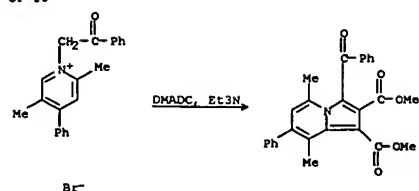
REF: Bulletin of the Chemical Society of Japan, 53(1), 297-8; 1980

RX (9) OF 20



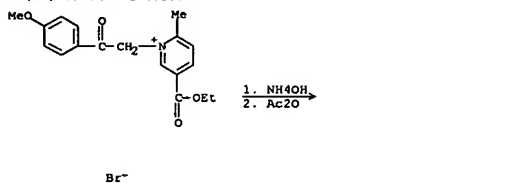
REF: Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i Khimicheskaya Tekhnologiya, 22(10), 1197-201; 1979

RX (1) OF 18



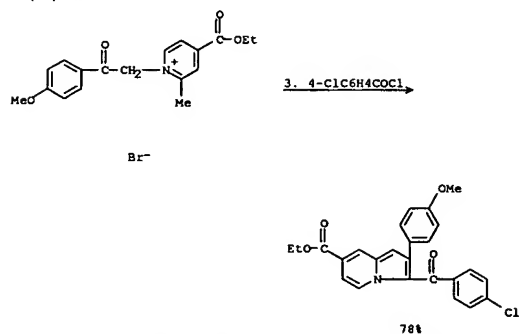
REF: Khimiya Geterotsiklicheskikh Soedinenii, (6), 794-8; 1979

RX (45) OF 94 - 2 STEPS



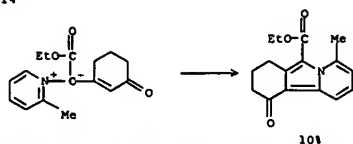
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RX (35) OF 46 - 3 STEPS



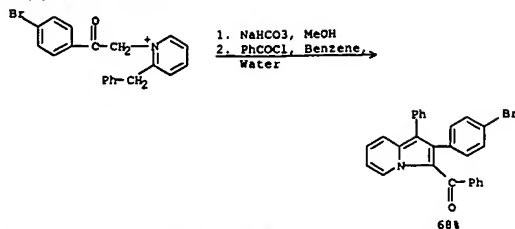
REF: Khimiya Geterotsiklicheskikh Soedinenii, (3), 348-51; 1976

RX(6) OF 14



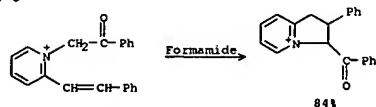
REF: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999), (6), 575-9; 1975

RX(3) OF 3 - 2 STEPS



REF: Journal of Pharmaceutical Sciences, 52(9), 868-71; 1963
NOTE: 1) Classification: Heterocycle formation; Condensation; Isomerisation; Cyclisation; # Conditions: NaHCO₃ MeOH; Rf 3h; # Comments: table included; reactant as bromide, 2) Classification: C-Acylation; Regioselective; # Conditions: 40 deg 30mn; benzene 20 deg 60h; water bath 1h; NaOH H₂O 20 deg

RX(1) OF 5



REF: Angew. Chem., 74,, 811-17; 1962
NOTE: Classification: Heterocycle formation; Addition; Cyclisation; C-Alkylation; # Conditions: HCONH₂ 1mn 200 deg; # Comments: product as C₆H₉O₃⁻ salt

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

188.14

196.77

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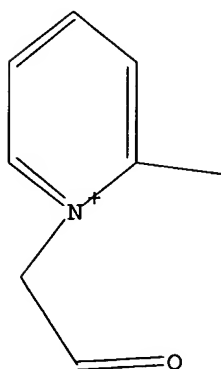
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L7 STRUCTURE UPLOADED

=> d

L7 HAS NO ANSWERS

L7 STR



Structure attributes must be viewed using STN Express query preparation.

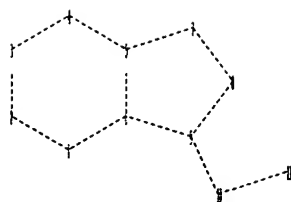
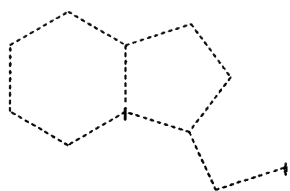
=> s 17

SAMPLE SEARCH INITIATED 11:07:45 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 453 TO ITERATE

100.0% PROCESSED 453 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

50 ANSWERS



chain nodes :

10 11

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

9-10 10-11

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 9-10 10-11

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS

11:CLASS

BATCH **COMPLETE**
PROJECTED ITERATIONS: 75622 TO 83178
PROJECTED ANSWERS: 8774 TO 11472

L12 50 SEA SSS SAM L11

=> s l11 full
FULL SEARCH INITIATED 11:08:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 79521 TO ITERATE

100.0% PROCESSED 79521 ITERATIONS
SEARCH TIME: 00.00.01

9550 ANSWERS

L13 9550 SEA SSS FUL L11

=> s l13 and caplus/lc
51199448 CAPLUS/LC
L14 5906 L13 AND CAPLUS/LC

=> d his

(FILE 'HOME' ENTERED AT 11:03:26 ON 10 JUL 2006)

FILE 'CAPLUS' ENTERED AT 11:03:38 ON 10 JUL 2006

L1 0 S US20040152897
L2 1 S US20040152897/PN
SELECT L2 1 RN

FILE 'REGISTRY' ENTERED AT 11:04:06 ON 10 JUL 2006

L3 40 S E1-E40

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=> s l10 and l14

528 L10

1085 L14

L15 99 L10 AND L14

=> d ibib abs hitstr 1-99

L15 ANSWER 1 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:1030602 CAPLUS
 TITLE: Solvent effects on the fluorescence properties of indolizines
 AUTHOR(S): Shen, Zhuang; Chen, Wei; Shen, Yongmiao; Du, Jiangyan; Wang, Bingxiang; Shen, Jian; Hu, Hongwen
 CORPORATE SOURCE: School of Chemistry and Environmental Science, Nanjing

SOURCE: Normal University; Jiangsu Research Center of Biomedical Functional Materials Engineering, Nanjing, Jiangsu Province, 210097, Peop. Rep. China
 Nanjing Shida Xuebao, Ziran Kexueban (2005), 28(1), 59-61
 CODEN: NSXZEN; ISSN: 1001-4616

PUBLISHER: Nanjing Shida Xuebao Bianjibu

DOCUMENT TYPE: Journal
 LANGUAGE: Chinese

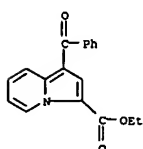
AB A series of indolizines were synthesized with pyridinium and alkene through cyclization reaction. Their photophys. properties in ethanol, dichloromethane, toluene and cyclohexane were analyzed by their

UV-visible (UV-Vis) absorption and fluorescence spectra. The relationships between their microcosmic structures and corresponding optical properties were investigated. The results showed that the effects of solvent polarity on Stoke's shift, fluorescence intensity and fluorescence quantum field were more evident than that on UV-Vis absorption spectra. The fluorescence properties of indolizines were mainly determined by their chemical structures.

However, the effects of external factors such as solvent, temperature and pressure should be taken into consideration, too.

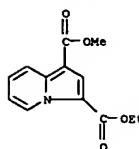
IT 128352-94-3 128352-99-8 154224-60-9
 RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation, nonpreparative)

(solvent effects on fluorescence properties of indolizines)
 RN 128352-94-3 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-benzoyl-, ethyl ester (9CI) (CA INDEX NAME)

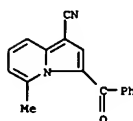


RN 128352-99-8 CAPLUS
 CN 1,3-Indolizinedicarboxylic acid, 3-ethyl 1-methyl ester (9CI) (CA INDEX NAME)

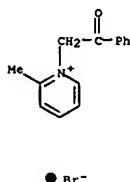
L15 ANSWER 1 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 154224-60-9 CAPLUS
 CN 1-Indolizinecarbonitrile, 3-benzoyl-5-methyl- (9CI) (CA INDEX NAME)



IT 32896-98-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (solvent effects on fluorescence properties of indolizines)
 RN 32896-98-3 CAPLUS
 CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



• Br⁻

L15 ANSWER 2 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:731897 CAPLUS
 DOCUMENT NUMBER: 142:197802
 TITLE: Synthesis of 4-methylpyrrolo[2,1,5-cd]indolizines
 AUTHOR(S): Li, Bin; Fan, Guo-Jun; He, Ting; Hu, Hong-Wen
 CORPORATE SOURCE: Department of Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China
 SOURCE: Gaodeng Xuebao Huaxue Xuebao (2004), 25(8), 1461-1464

PUBLISHER: Gaodeng Jiaoyu Chubanshe
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese

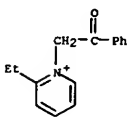
OTHER SOURCE(S): CASREACT 142:197802
 AB Pyrrolo[2,1,5-cd]indolizine is the most interesting member of bicyclo[3,2,2]azine. Its derivs. have received considerable attention in the field of synthetic organic chemical due to their novel structure and properties, increasing biol. interest and because their partially saturated

frameworks occur in natural products. Over recent years the [8+2] cycloaddn. of indolizine with an electron-deficient acetylene has been frequently employed for this purpose. In this paper we reported the synthesis of 5-methylpyrrolo[2,1,5-cd]indolizines starting from o-Et pyridine, which was converted at first to 3-acyl-5-Et indolizines by 1,3-dipolar cycloaddn. of the corresponding pyridinium ylide with electron-deficient olefines and then the indolizines were transformed to pyrrolo[2,1,5-cd]indolizines by intramol. condensation between the 3-acyl and the 5-Et groups.

IT 5994-36-5P 839698-05-4P 839698-06-5P
 839698-07-6P 839698-08-7P 839698-09-8P
 839698-10-1P 839698-11-2P 839698-12-3P
 839698-13-4P 839698-14-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reaction or reagent)

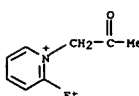
(preparation of methylpyrroloindolizines)
 RN 5994-36-5 CAPLUS
 CN Pyridinium, 2-ethyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



• Br⁻

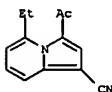
RN 839698-05-4 CAPLUS
 CN Pyrrolo[2,1,5-cd]indolizine, 3-benzoyl-5-ethyl-, methyl ester (9CI) (CA INDEX NAME)

L15 ANSWER 2 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

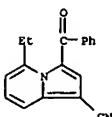


• Br⁻

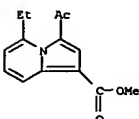
RN 839698-06-5 CAPLUS
 CN 1-Indolizinecarboxylic acid, 3-acetyl-5-ethyl- (9CI) (CA INDEX NAME)



RN 839698-07-6 CAPLUS
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-5-ethyl- (9CI) (CA INDEX NAME)

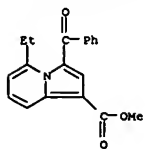


RN 839698-08-7 CAPLUS
 CN 1-Indolizinecarboxylic acid, 3-acetyl-5-ethyl-, methyl ester (9CI) (CA INDEX NAME)

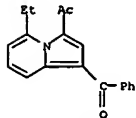


RN 839698-09-8 CAPLUS
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-5-ethyl-, methyl ester (9CI) (CA INDEX NAME)

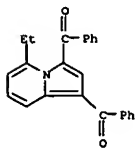
L15 ANSWER 2 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



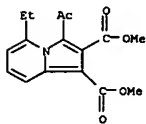
RN 839698-10-1 CAPLUS
CN Ethanone, 1-(1-benzoyl-5-ethyl-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 839698-11-2 CAPLUS
CN Methanone, (5-ethyl-1,3-indolizinediyl)bis[phenyl- (9CI) (CA INDEX NAME)



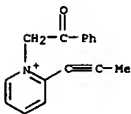
RN 839698-12-3 CAPLUS
CN 1,2-Indolizinedicarboxylic acid, 3-acetyl-5-ethyl-, dimethyl ester (9CI) (CA INDEX NAME)



RN 839698-13-4 CAPLUS
CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-5-ethyl-, dimethyl ester (9CI)

L15 ANSWER 3 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

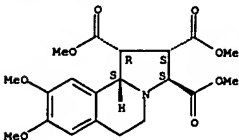
ACCESSION NUMBER: 2004:624086 CAPLUS
DOCUMENT NUMBER: 142:354747
TITLE: Product class 11: azomethine ylides
AUTHOR(S): Eberbach, W.
CORPORATE SOURCE: Germany
SOURCE: Science of Synthesis (2004), 27, 441-498
CODEN: SSCYJ9
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal: General Review
LANGUAGE: English
AB A review. Methods for generating azomethine ylides are reviewed as well as their application to organic synthesis.
IT 96206-84-7
RL: RCT (Reactant); RACT (Reactant or reagent) (methods for generating azomethine ylides and application to organic synthesis)
RN 96206-84-7 CAPLUS
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(1-propynyl)-, bromide (9CI) (CA INDEX NAME)



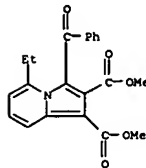
● Br⁻

IT 88081-70-3P 104727-08-4P
RL: SYN (Synthetic preparation); PREP (Preparation) (methods for generating azomethine ylides and application to organic synthesis)
RN 88081-70-3 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2,3-tricarboxylic acid, 1,2,3,5,6,10b-hexahydro-8,9-dimethoxy-, trimethyl ester, (1R,2S,3S,10bS)-rel- (9CI) (CA INDEX NAME)

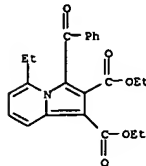
Relative stereochemistry.



L15 ANSWER 2 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



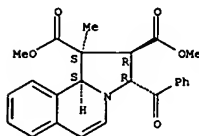
RN 839698-14-5 CAPLUS
CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-5-ethyl-, diethyl ester (9CI) (CA INDEX NAME)



L15 ANSWER 3 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 104727-08-4 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-benzoyl-1,2,3,10b-tetrahydro-1-methyl-, dimethyl ester, (1R,2S,3S,10bR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 296 THERE ARE 296 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 4 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN

ACCESSION NUMBER: 2004:490446 CAPLUS
DOCUMENT NUMBER: 141:54191

TITLE: Preparation of α -oxo-1-indolizineacetamides as tumor necrosis factor (TNF α) inhibitors for the treatment of inflammatory disorders.
INVENTOR(S): Ono, Mitsunori; Sun, Lijun; Xia, Zhi Qiang; Li, Hao; Chen, Shojun; Nagai, Masazumi; Lu, Rongzhen

PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 17 pp.

CODEN: USXXCO
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

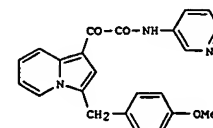
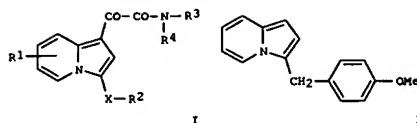
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| US 2004116462 | A1 | 20040617 | US 2002-319401 | 20021212 |
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| CA 2509214 | AA | 20040701 | CA 2003-2509214 | 20031210 |
| WO 2004054507 | A2 | 20040701 | WO 2003-US39303 | 20031210 |
| WO 2004054507 | A3 | 20050210 | | |

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TG AU 2003297842 A1 20040709 AU 2003-297842 20031210
EP 1569644 A2 20050907 EP 2003-796912 20031210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
JP 2006509842 T2 20060323 JP 2005-508315 20031210
PRIORITY APPLN. INFO.: US 2001-322020P P 20010913
US 2002-244088 A2 20020913
US 2002-319401 A2 20021212
US 2003-388332 A 20030313
WO 2003-US39303 W 20031210

OTHER SOURCE(S): MARPAT 141:54191
GI

L15 ANSWER 4 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



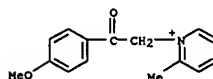
III

AB Title compds. I (R1 = H, alkyl, alkoxy, etc.); (un)substituted alkoxy, OH, CN, etc.; R3 = H, alkyl; R4 = N-oxy pyridyl, substituted pyridyl, e.g.,

F, Cl, Br, etc.; X = CR'', NR', O, etc.; R', R'' = H, substituted alkoxy, e.g., OH, CN, F, etc.] and their pharmaceutically acceptable salts were prepared For example, oxalyl chloride acylation of indolizine II, e.g., prepared from 2-methylpyridine in 3-steps, followed by the addition of 3-aminopyridine afforded indolizine III. In human TNF α inhibition assays, 32-examples of compds. I exhibited IC50 values < 5 μ M and 5-examples showed IC50 values of 10 nM or lower. Compds. I are claimed useful for the treatment of inflammatory disorders.

IT 82746-45-0P 618067-79-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of α -oxo-1-indolizineacetamides as PDE4 inhibitors for the treatment of inflammatory disorders.)

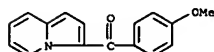
RN 82746-45-0 CAPLUS
CN Pyridinium, 1-[2-(4-methoxyphenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 618067-79-1 CAPLUS
CN Methanone, 3-indoliziny1(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

L15 ANSWER 4 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



L15 ANSWER 5 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN

ACCESSION NUMBER: 2004:350189 CAPLUS
DOCUMENT NUMBER: 142:45034

TITLE: Synthesis and optical properties of indolizines carrying ester groups
AUTHOR(S): Shen, Yongmiao; Gu, Xiaotian; Feng, Yuying; Shen, Zhuqing; Yuan, Liangzheng; Li, Chun; Hu, Hongwen; Wang, Bingxiang

CORPORATE SOURCE: School of Chemistry and Environmental Science, Nanjing

SOURCE: Normal University, Nanjing, 210097, Peop. Rep. China
Nanjing Shida Xuebao, Ziran Kexueban (2003), 26(4), 65-68

CODEN: NSXZEN; ISSN: 1001-4616
Nanjing Shida Xuebao Bianjibu

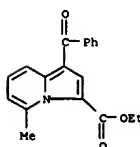
PUBLISHER: Journal
LANGUAGE: Chinese

AB A series of indolizines were synthesized. The fluorescence spectrum and fluorescence quantum yields of the compds. were examined The indolizines (3b, 3d, 3e) have high fluorescence quantum yields.

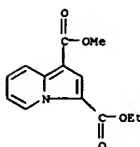
IT 5361-82-0P 128352-99-8P 133619-68-8P
242131-21-1P 374106-42-0P 374106-43-1P
RL: PEP (Physical, engineering or chemical process); PRP (Properties);

FYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(preparation and optical properties of indolizines carrying ester groups)

RN 5361-82-0 CAPLUS
CN 3-indolizinedicarboxylic acid, 1-benzoyl-5-methyl-, ethyl ester (7CI, 8CI, 9CI) (CA INDEX NAME)

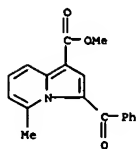


RN 128352-99-8 CAPLUS
CN 1,3-indolizinedicarboxylic acid, 3-ethyl 1-methyl ester (9CI) (CA INDEX NAME)

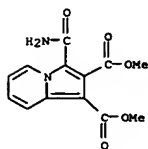


L15 ANSWER 5 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

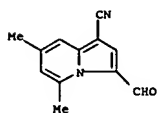
RN 133619-68-8 CAPLUS
CN 1-Indolizinecarboxylic acid, 3-benzoyl-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 242131-21-1 CAPLUS
CN 1,2-Indolizinedicarboxylic acid, 3-(aminocarbonyl)-, dimethyl ester (9CI) (CA INDEX NAME)

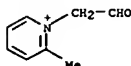


RN 374106-42-0 CAPLUS
CN 1-Indolizinecarbonitrile, 3-formyl-5,7-dimethyl- (9CI) (CA INDEX NAME)



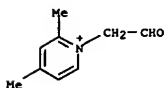
RN 374106-43-1 CAPLUS
CN 3-Indolizinecarboxaldehyde, 1-benzoyl-5-methyl- (9CI) (CA INDEX NAME)

L15 ANSWER 5 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



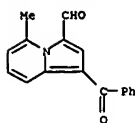
● Br⁻

RN 805325-99-9 CAPLUS
CN Pyridinium, 2,4-dimethyl-1-(2-oxoethyl)-, bromide (9CI) (CA INDEX NAME)



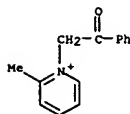
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L15 ANSWER 5 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



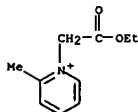
IT 32896-98-3 55814-02-3 805325-98-8
805325-99-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and optical properties of indolizines carrying ester groups)

RN 32896-98-3 CAPLUS
CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 55814-02-3 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 805325-98-8 CAPLUS
CN Pyridinium, 2-methyl-1-(2-oxoethyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 6 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:252511 CAPLUS
DOCUMENT NUMBER: 140:287263
TITLE: Synthesis of 3-acylindolizines via cyclization of 2-methyl-1-phenacylpyridinium halides with sterically hindered reagents, and their use as intermediates in the preparation of 1-glyoxylamide indolizines

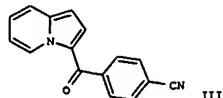
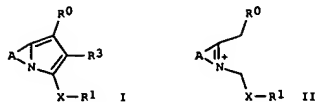
INVENTOR(S): Sun, Lijun; Koya, Keizo; Xia, Zhi-qiang; Przewloka, Teresa; Zhang, Shijie; Ono, Mitsunori
PATENT ASSIGNEE(S): Synta Pharmaceuticals Corp., USA
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

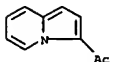
PATENT INFORMATION:

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| WO 2004024727 | A2 | 20040325 | WO 2003-US28252 | 20030910 |
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| CA 2496764 | AA | 20040325 | CA 2003-2496764 | 20030910 |
| AU 2003267071 | A1 | 20040430 | AU 2003-267071 | 20030910 |
| EP 1537105 | A2 | 20050608 | EP 2003-749545 | 20030910 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| CN 1681813 | A | 20051012 | CN 2003-821740 | 20030910 |
| JP 2006504692 | T2 | 20060209 | JP 2004-536391 | 20030910 |
| US 2004152897 | A1 | 20040805 | US 2003-660358 | 20030911 |
| NO 2005001009 | A | 20050404 | NO 2005-1009 | 20050224 |
| PRIORITY APPLN. INFO.: | | | US 2002-410679P | P 20020913 |
| | | | WO 2003-US28252 | W 20030910 |

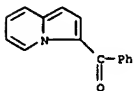
OTHER SOURCE(S): MARPAT 140:287263
GI



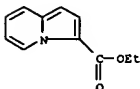
AB The invention is related to a method for preparing 3-acylindolizines I by reacting a substrate II with either the cyclization reagent R3C(OR2)2N(R4)2 or, a reagent prepared by reaction of R3C(:)N(R4)2 with an alkylating agent [A = (un)substituted aryl; X = covalent bond, or C(:O), S(:O), SO2, NH and derivs., (un)substituted methylene; R0 = H, halo, CN, CO2H and derivs., C(:OH) and derivs., CONH2 and derivs., SO2H and derivs., SO2NH2 and derivs., (un)substituted aliphatic, aryl, non-aromatic heterocyclyl; R1 = H, CN, OH and derivs., SH and derivs., NH2 and derivs., (un)substituted aliphatic, aryl, non-aromatic heterocyclyl; R2 = independently (un)substituted aliphatic, aryl, or both R2 = linking group; R3 = H, (un)substituted aryl; or an electron-withdrawing, or electron-donating group provided that if R3 = H, at least one R2 = secondary or tertiary alkyl, (un)substituted aryl; R4 = independently H, (un)substituted aliphatic, aryl, or R4NR4 = (un)substituted heterocyclyl]. The advantages include high yields in the 3-acylindolizine, absence of 2-acylindolizine byproduct, and an environmental-friendly process. The invention is also directed to the use of I in the preparation of pharmacol. active 1-glyoxyamide indolizines III by further acylation of I with oxalyl chloride or a synthetic equivalent, and reaction with amines [8 = (un)substituted ring or fused to an aryl group; R5, R6 = independently H, (un)substituted aliphatic, non-aromatic heterocyclyl, aryl, provided that R5 or R6 are not both H, or NR5R6 = (un)substituted non-aromatic heterocyclyl, aryl; R1, R2, X defined as above]. For example, 4-[(Indolizin-3-yl)carbonyl]benzonitrile was prepared by cyclization of IV=Br- with N,N-dimethylformamide



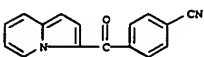
RN 25314-92-5 CAPLUS
CN Methanone, 3-indolizinyphenyl- (9CI) (CA INDEX NAME)



RN 55814-14-7 CAPLUS
CN 3-indolizinecarboxylic acid, ethyl ester (9CI) (CA INDEX NAME)



RN 501948-42-1 CAPLUS
CN Benzonitrile, 4-(3-indolizinyldicarbonyl)- (9CI) (CA INDEX NAME)

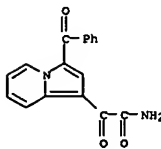


RN 501948-52-3 CAPLUS
CN Benzonitrile, 4-[(6-hydroxy-3-indolizinyldicarbonyl)- (9CI) (CA INDEX NAME)



RN 501948-53-4 CAPLUS
CN Methanone, 2-furanyl-3-indolizinyldicarbonyl- (9CI) (CA INDEX NAME)

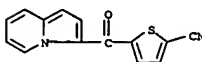
L15 ANSWER 6 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
di-tert-butylacetal in DMF.
IT 675139-41-0DDP, deriva.
RL: FNU (Preparation, unclassified); PREP (Preparation)
(1-glyoxyamide indolizine; synthesis of indolizines via cyclization of 2-methyl-1-phenacylpyridinium halides with amidoacetals)
RN 675139-41-0 CAPLUS
CN 1-indolizineacetamide, 3-benzoyl- α -oxo- (9CI) (CA INDEX NAME)



IT 25314-91-4P, 1-(Indolizin-3-yl)ethanone 25314-92-5P
55814-14-7P 501948-42-1P, 4-[(Indolizin-3-yl)carbonyl]benzonitrile 501948-52-3P, 4-[(6-Hydroxyindolizin-3-yl)carbonyl]benzonitrile 501948-53-4P, (Furan-2-yl)(indolizin-3-yl)methanone 501948-54-5P, 5-[(Indolizin-3-yl)carbonyl]thiophene-2-carbonitrile 618067-79-1P, (Indolizin-3-yl)(4-methoxyphenyl)methanone 675139-18-1P, (4-Chlorophenyl)indolizin-3-ylmethanone 675139-19-2P, (3,4-Dichlorophenyl)indolizin-3-ylmethanone 675139-20-5P, (Indolizin-3-yl)(4-methylphenyl)methanone 675139-21-6P, (4-Hydroxyphenyl)indolizin-3-ylmethanone 675139-22-7P, (Indolizin-3-yl)(3-methoxyphenyl)methanone 675139-23-8P, 3-[(Indolizin-3-yl)carbonyl]benzonitrile 675139-24-9P, 4-[(1-Methylindolizin-3-yl)carbonyl]benzonitrile 675139-25-0P, 4-[(6-Ethylindolizin-3-yl)carbonyl]benzonitrile 675139-26-1P, 4-[(6-Methoxymethylindolizin-3-yl)carbonyl]benzonitrile 675139-27-2P, (Indolizin-3-yl)(4-nitrophenyl)methanone 675139-28-3P, (5-Chlorothiophen-2-yl)indolizin-3-ylmethanone 675139-29-4P, 1-(Indolizin-3-yl)propan-1-one 675139-30-7P, (7-Chloroindolizin-3-yl)(4-chlorophenyl)methanone 675139-31-8P, (7-Chloroindolizin-3-yl)(4-cyanophenyl)methanone 675139-32-9P, 3-(4-Cyanobenzoyl)indolizine-6-carboxylic acid methyl ester 675139-33-0P, 4-[(Indolizin-3-yl)carbonyl]benzoic acid ethyl ester 675139-34-1P, 5-Methylindolizine-3-carboxylic acid tert-butyl ester 675139-35-2P, (7-Fluoroindolizin-3-yl)(4-fluorophenyl)methanone 675139-36-3P, (4-Fluorophenyl)(7-methoxyindolizin-3-yl)methanone 675139-37-4P, (7-Chloroindolizin-3-yl)(4-fluorophenyl)methanone 675139-38-5P, (4-Chlorophenyl)(7-methoxyindolizin-3-yl)methanone 675139-39-6P, (7-Benzyloxyindolizin-3-yl)(4-fluorophenyl)methanone 675139-40-9P, 1-(Indolizin-3-yl)pentan-1-one
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(indolizine product; synthesis of indolizines via cyclization of 2-methyl-1-phenacylpyridinium halides with amidoacetals)
RN 25314-91-4 CAPLUS
CN Ethanone, 1-(3-indolizinyldicarbonyl)- (9CI) (CA INDEX NAME)



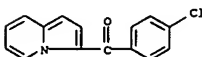
RN 501948-54-5 CAPLUS
CN 2-Thiophenecarbonitrile, 5-(3-indolizinyldicarbonyl)- (9CI) (CA INDEX NAME)



RN 618067-79-1 CAPLUS
CN Methanone, 3-indolizinyldicarbonyl- (9CI) (CA INDEX NAME)



RN 675139-18-1 CAPLUS
CN Methanone, (4-chlorophenyl)-3-indolizinyldicarbonyl- (9CI) (CA INDEX NAME)



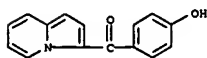
RN 675139-19-2 CAPLUS
CN Methanone, (3,4-dichlorophenyl)-3-indolizinyldicarbonyl- (9CI) (CA INDEX NAME)



RN 675139-20-5 CAPLUS
CN Methanone, 3-indolizinyldicarbonyl- (9CI) (CA INDEX NAME)



L15 ANSWER 6 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RN 675139-21-6 CAPLUS
 CN Methanone, (4-hydroxyphenyl)-3-indoliziny- (9CI) (CA INDEX NAME)



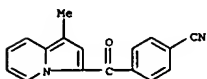
RN 675139-22-7 CAPLUS
 CN Methanone, 3-indoliziny-3-methoxyphenyl- (9CI) (CA INDEX NAME)



RN 675139-23-8 CAPLUS
 CN Benzonitrile, 3-[(3-indoliziny)carbonyl]- (9CI) (CA INDEX NAME)



RN 675139-24-9 CAPLUS
 CN Benzonitrile, 4-[(1-methyl-3-indoliziny)carbonyl]- (9CI) (CA INDEX NAME)



RN 675139-25-0 CAPLUS
 CN Benzonitrile, 4-[(6-ethyl-3-indoliziny)carbonyl]- (9CI) (CA INDEX NAME)

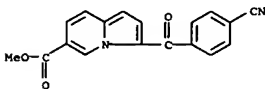


RN 675139-26-1 CAPLUS
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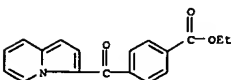
L15 ANSWER 6 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



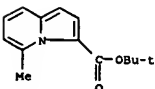
RN 675139-32-9 CAPLUS
 CN 6-Indolizinecarboxylic acid, 3-(4-cyanobenzoyl)-, methyl ester (9CI) (CA INDEX NAME)



RN 675139-33-0 CAPLUS
 CN Benzoic acid, 4-[(3-indoliziny)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 675139-34-1 CAPLUS
 CN 3-Indolizinecarboxylic acid, 5-methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

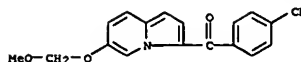


RN 675139-35-2 CAPLUS
 CN Methanone, (7-fluoro-3-indoliziny) (4-fluorophenyl)- (9CI) (CA INDEX NAME)

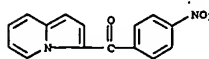


RN 675139-36-3 CAPLUS
 CN Methanone, (4-fluorophenyl) (7-methoxy-3-indoliziny)- (9CI) (CA INDEX NAME)

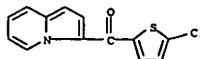
L15 ANSWER 6 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



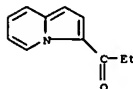
RN 675139-27-2 CAPLUS
 CN Methanone, 3-indoliziny (4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 675139-28-3 CAPLUS
 CN Methanone, (5-chloro-2-thienyl)-3-indoliziny- (9CI) (CA INDEX NAME)



RN 675139-29-4 CAPLUS
 CN 1-Propanone, 1-(3-indoliziny)- (9CI) (CA INDEX NAME)



RN 675139-30-7 CAPLUS
 CN Methanone, (7-chloro-3-indoliziny) (4-chlorophenyl)- (9CI) (CA INDEX NAME)

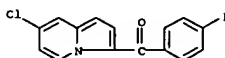


RN 675139-31-8 CAPLUS
 CN Benzonitrile, 4-[(7-chloro-3-indoliziny)carbonyl]- (9CI) (CA INDEX NAME)

L15 ANSWER 6 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



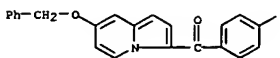
RN 675139-37-4 CAPLUS
 CN Methanone, (7-chloro-3-indoliziny) (4-fluorophenyl)- (9CI) (CA INDEX NAME)



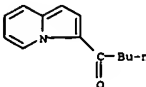
RN 675139-38-5 CAPLUS
 CN Methanone, (4-chlorophenyl) (7-methoxy-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 675139-39-6 CAPLUS
 CN Methanone, (4-fluorophenyl) (7-(phenylmethoxy)-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 675139-40-9 CAPLUS
 CN 1-Pentanone, 1-(3-indoliziny)- (9CI) (CA INDEX NAME)



IT 501948-51-2P, 2-Methyl-1-[(4-cyanophenyl)carbonyl]methylpyridinium bromide
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate: synthesis of indolizines via cyclization of 2-methyl-1-phenacylpyridinium halides with amidoacetals)

Cc1ccc[n+]1CC(=O)c2ccc(C#N)cc2

● Br⁻

CC(=O)OCCN1C=CC=C(C)C1 $\bullet \text{Br}^-$

17
 17558-40-6P, 17558-41-7P, 1-(Benzyl-o-phenylbenzoyloxy)indolizine-1-carboxylate
 17558-42-6P, 1-(Benzyl-o-phenylbenzoyloxy)indolizine-1-carboxylate
 2-(1-Benzyl-2-ethyl-6-methoxyindolizine-3-yl)glyoxylamide
 17558-43-9P, 2-(1-Benzyl-2-ethyl-6-hydroxyindolizine-3-yl)glyoxylamide
 17558-44-0P, 2-[1-Benzyl-6-(3-carbethoxypropyloxy)-2-ethylindolizine-3-yl]glyoxylamide
 17558-52-0P, Ethyl 2-[8-benzoyloxy-2-ethyl-3-(o-phenylbenzoyl)indolizine-1-yl]acetate
 17558-53-1P, 2-(8-Benzoyloxy-2-ethyl-3-(o-phenylbenzoyl)indolizine-1-yl)acetamide
 17558-54-2P, 2-(8-Benzoyloxy-3-(m-chlorobenzoyl)indolizine-1-yl)acetamide
 17558-55-3P, 2-[3-(m-Chlorobenzoyl)-2-ethyl-8-(2-oxobutyl)indolizine-1-yl]acetamide
 17558-56-4P, 2-(8-Benzoyloxy-2-cyclopropyl-3-(o-phenylbenzoyl)indolizine-1-yl)acetamide
 17558-66-6P, Ethyl 3-benzoyloxy-8-benzoyloxy-2-ethylindolizine-1-carboxylate
 17558-67-7P, Ethyl 8-benzoyloxy-2-ethyl-3-(o-phenylbenzoyl)indolizine-1-carboxylate
 17558-68-8P, Ethyl 8-benzoyloxy-3-(m-chlorobenzoyl)-2-ethylindolizine-1-carboxylate
 17558-69-9P, Ethyl 8-benzoyloxy-2-ethyl-3-(m-trifluoromethylbenzoyl)indolizine-1-carboxylate
 17558-70-2P, Ethyl 8-benzoyloxy-2-ethyl-3-(1-naphthoyl)indolizine-1-carboxylate
 17558-71-3P, Ethyl 8-benzoyloxy-2-cyclopropyl-3-(o-phenylbenzoyl)indolizine-1-carboxylate
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 17558-73-5P, 8-Benzoyloxy-2-ethyl-3-(o-phenylbenzoyl)indolizine
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 17558-77-9P, 8-Benzoyloxy-2-cyclopropyl-3-(o-phenylbenzoyl)indolizine
 17559-02-3P, 3-Methoxy-2-methyl-1-(2-oxobutyl)pyridinium bromide
 17559-08-9P, 8-Benzoyloxy-2-ethyl-3-(p-phenylbenzoyl)indolizine
 17559-09-0P, 8-Benzoyloxy-3-(cyclohexylcarbonyl)-2-ethylindolizine
 17559-10-3P, 8-Benzoyloxy-3-(cyclopentylcarbonyl)-2-ethylindolizine
 17559-11-4P, 8-Benzoyloxy-3-(cycloheptylcarbonyl)-2-ethylindolizine
 17559-13-6P, 8-Benzoyloxy-2-ethyl-3-(1-oxo-2-propenyl)indolizine
 17559-14-7P, 8-Benzoyloxy-2-ethyl-3-(naphth-2-ylcarbonyl)indolizine
 17559-15-8P, 8-Benzoyloxy-3-(3,5-di-tert-butylbenzoyl)-2-ethylindolizine
 17559-16-9P, 8-Benzoyloxy-2-ethyl-3-(1-oxo-2-phenylethyl)indolizine
 17559-17-0P, 3-(o-Benzoylbenzoyl)-8-benzoyloxy-2-ethylindolizine
 17559-22-7P, 8-Benzoyloxy-3-(p-phenylbenzoyl)indolizine
 17559-23-8P, 8-Benzoyloxy-2-ethyl-3-(cyclopropylcarbonyl)indolizine
 17559-24-9P, 3-(p-Butylbenzoyl)-2-ethyl-8-methoxyindolizine
 17559-26-1P, 3-(Cyclohexylcarbonyl)-2-cyclopropyl-8-methoxyindolizine

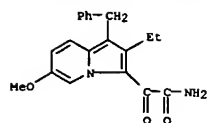
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| WO 9603383 | A1 | 19960208 | WO 1995-US9381 | 19950720 |
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| PRIORITY APPLN. INFO.: | | | US 1994-278445 | A2 19940721 |
| | | | WO 1995-US9381 | W 19950720 |

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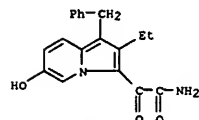
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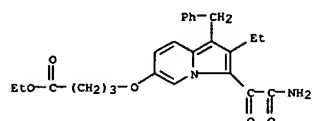
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CN 3-Indolizineacetamide, 2-ethyl-6-methoxy- α -oxo-1-(phenylmethyl)-
(9CI) (CA INDEX NAME)



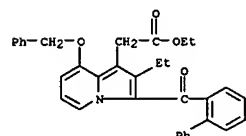
RN 177558-43-9 CAPLUS
CN 3-Indolizineacetamide, 2-ethyl-6-hydroxy-α-oxo-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



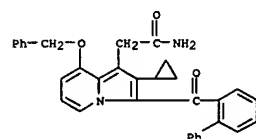
RN 177558-44-0 CAPLUS
CN Butanoic acid, 4-[[3-(aminooxoacetyl)-2-ethyl-1-(phenylmethyl)-6-indolizinyloxy]-, ethyl ester (9CI) (CA INDEX NAME)



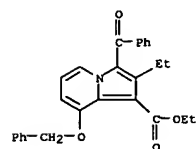
RN 177558-52-0 CAPLUS
CN 1-Indolizineacetic acid, 3-[[1,1'-biphenyl]-2-ylcarbonyl]-2-ethyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



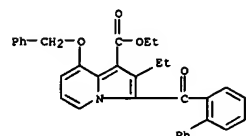
RN 177558-53-1 CAPLUS
CN 1-Indolizineacetamide, 3-[[1,1'-biphenyl]-2-ylcarbonyl]-2-ethyl-8-



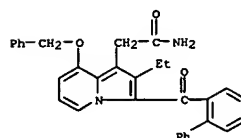
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CN 1-Indolizinecarboxylic acid, 2-ethyl-8-(phenylmethoxy)-3-benzoyl-, ethyl ester (9CI) (CA INDEX NAME)



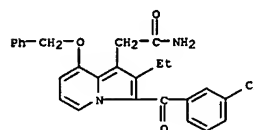
RN 177558-67-7 CAPLUS
CN 1-Indolizinecarboxylic acid, 2-ethyl-3-[[1,1'-biphenyl]-2-ylcarbonyl]-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



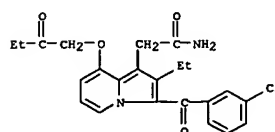
RN 177558-68-8 CAPLUS
CN 1-Indolizinecarboxylic acid, 2-ethyl-8-(phenylmethoxy)-3-(3-chlorobenzoyl)-, ethyl ester (9CI) (CA INDEX NAME)



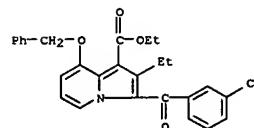
RN 177558-54-2 CAPLUS
CN 1-Indolizineacetamide, 3-(3-chlorobenzoyl)-2-ethyl-8-(phenylmethoxy)- (9CI) (CA INDEX NAME)



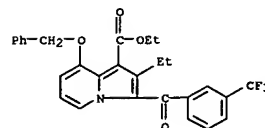
RN 177558-55-3 CAPLUS
CN 1-Indolizineacetamide, 3-(3-chlorobenzoyl)-2-ethyl-8-(2-oxobutoxy)- (9CI) (CA INDEX NAME)



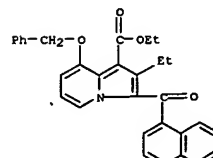
RN 177558-56-4 CAPLUS
CN 1-Indolizineacetamide, 3-[[1,1'-biphenyl]-2-ylcarbonyl]-2-cyclopropyl-8-(phenylmethoxy)- (9CI) (CA INDEX NAME)



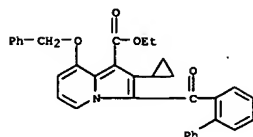
RN 177558-69-9 CAPLUS
CN 1-Indolizinecarboxylic acid, 2-ethyl-8-(phenylmethoxy)-3-[[1,1'-biphenyl]-2-ylcarbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



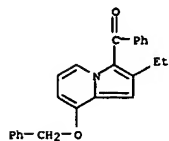
RN 177558-70-2 CAPLUS
CN 1-Indolizinecarboxylic acid, 2-ethyl-3-(1-naphthalenylcarbonyl)-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



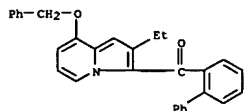
RN 177558-71-3 CAPLUS
CN 1-Indolizinecarboxylic acid, 2-ethyl-8-(phenylmethoxy)-3-(3-chlorobenzoyl)-, ethyl ester (9CI) (CA INDEX NAME)



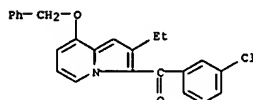
RN 177558-72-4 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indoliziny]phenyl- (9CI) (CA INDEX NAME)



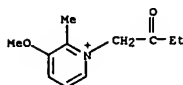
RN 177558-73-5 CAPLUS
CN Methanone, [1,1'-biphenyl]-2-yl [2-ethyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)



RN 177558-74-6 CAPLUS
CN Methanone, [3-chlorophenyl] [2-ethyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)

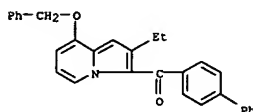


RN 177558-75-7 CAPLUS

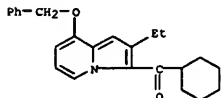


● Br⁻

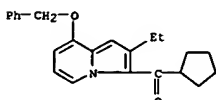
RN 177559-08-9 CAPLUS
CN Methanone, [1,1'-biphenyl]-4-yl [2-ethyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)



RN 177559-09-0 CAPLUS
CN Methanone, cyclohexyl [2-ethyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)

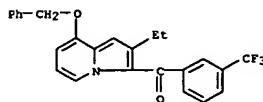


RN 177559-10-3 CAPLUS
CN Methanone, cyclopentyl [2-ethyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)

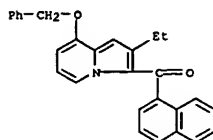


RN 177559-11-4 CAPLUS
CN Methanone, cycloheptyl [2-ethyl-8-(phenylmethoxy)-3-indoliziny]- (9CI)

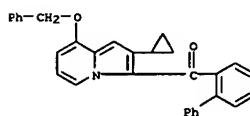
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indoliziny] [3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



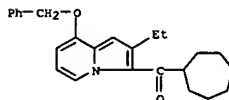
RN 177558-76-8 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indoliziny]-1-naphthalenyl- (9CI) (CA INDEX NAME)



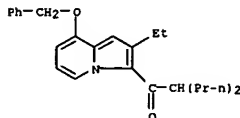
RN 177558-77-9 CAPLUS
CN Methanone, [1,1'-biphenyl]-2-yl [2-cyclopropyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)



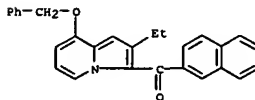
RN 177559-02-3 CAPLUS
CN Pyridinium, 3-methoxy-2-methyl-1-(2-oxobutyl)-, bromide (9CI) (CA INDEX NAME)



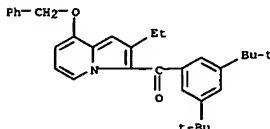
RN 177559-13-6 CAPLUS
CN 1-Pentanone, 1-[2-ethyl-8-(phenylmethoxy)-3-indoliziny]-2-propyl- (9CI) (CA INDEX NAME)



RN 177559-14-7 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indoliziny]-2-naphthalenyl- (9CI) (CA INDEX NAME)

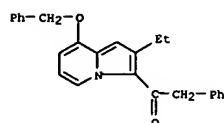


RN 177559-15-8 CAPLUS
CN Methanone, [3,5-bis(1,1-dimethylethyl)phenyl] [2-ethyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)

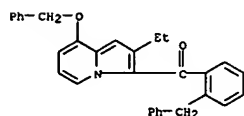


RN 177559-16-9 CAPLUS

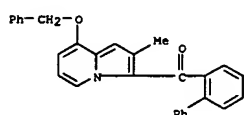
L15 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN Ethanone, 1-[2-ethyl-8-(phenylmethoxy)-3-indoliziny]-2-phenyl- (9CI)
 (CA INDEX NAME)



RN 177559-17-0 CAPLUS
 CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indoliziny][2-(phenylmethyl)phenyl]- (9CI) (CA INDEX NAME)

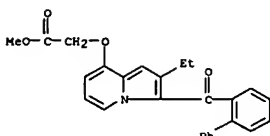


RN 177559-22-7 CAPLUS
 CN Methanone, [1,1'-biphenyl]-2-yl[2-methyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)

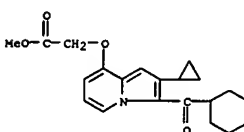


RN 177559-23-8 CAPLUS
 CN Methanone, [2-cyclopropyl-8-(phenylmethoxy)-3-indoliziny]phenyl- (9CI) (CA INDEX NAME)

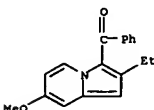
L15 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



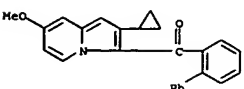
RN 177559-56-7 CAPLUS
 CN Acetic acid, [[3-(cyclohexylcarbonyl)-2-cyclopropyl-8-indolizinyloxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 177559-63-6 CAPLUS
 CN Methanone, (2-ethyl-7-methoxy-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)

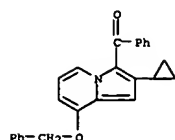


RN 177559-64-7 CAPLUS
 CN Methanone, [1,1'-biphenyl]-2-yl[2-(2-cyclopropyl-7-methoxy-3-indoliziny)]- (9CI) (CA INDEX NAME)

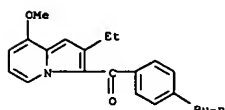


RN 177559-65-8 CAPLUS
 CN Methanone, [1,1'-biphenyl]-2-yl[2-ethyl-7-methoxy-3-indoliziny]- (9CI)

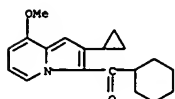
L15 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



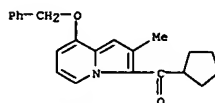
RN 177559-24-9 CAPLUS
 CN Methanone, (4-butylphenyl)(2-ethyl-8-methoxy-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 177559-26-1 CAPLUS
 CN Methanone, cyclohexyl[2-cyclopropyl-8-methoxy-3-indoliziny]- (9CI) (CA INDEX NAME)

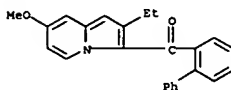


RN 177559-27-2 CAPLUS
 CN Methanone, cyclopentyl[2-methyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)

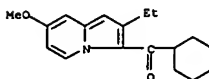


RN 177559-55-6 CAPLUS
 CN Acetic acid, [[3-(1,1'-biphenyl)-2-ylcarbonyl]-2-ethyl-8-indolizinyloxy]-, methyl ester (9CI) (CA INDEX NAME)

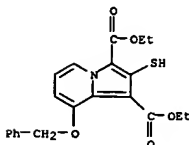
L15 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



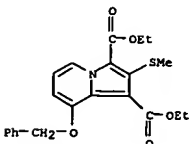
RN 177559-66-9 CAPLUS
 CN Methanone, cyclohexyl[2-ethyl-7-methoxy-3-indoliziny]- (9CI) (CA INDEX NAME)



RN 177559-88-5 CAPLUS
 CN 1,3-Indolizinedicarboxylic acid, 2-mercapto-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)

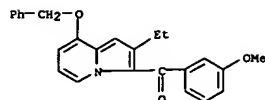


RN 177559-89-6 CAPLUS
 CN 1,3-Indolizinedicarboxylic acid, 2-(methylthio)-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)

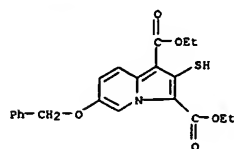


RN 182115-66-8 CAPLUS
 CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indoliziny](3-methoxyphenyl)-

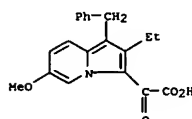
L15 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
(9CI) (CA INDEX NAME)



RN 182116-40-1 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 2-mercapto-6-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)



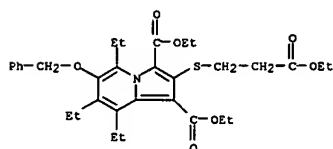
RN 622835-95-4 CAPLUS
CN 3-Indolizineacetic acid, 2-ethyl-6-methoxy-α-oxo-1-(phenylmethyl)-, lithium salt (9CI) (CA INDEX NAME)



● L1

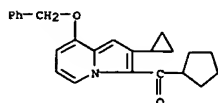
RN 622835-97-6 CAPLUS
CN Methanone, [1,1'-biphenyl]-2-yl[2-ethyl-1-(2-hydroxyethyl)-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)

L15 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
triethyl-6-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)



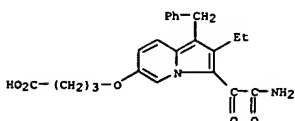
IT 622836-34-4P, 8-Benzyloxy-3-(cyclopentylcarbonyl)-2-cyclopropylindolizine
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(sPLA2 inhibitor; preparation of indolizines as inhibitors of sPLA2 mediated release of fatty acids)

RN 622836-34-4 CAPLUS
CN Methanone, cyclopentyl[2-cyclopropyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)

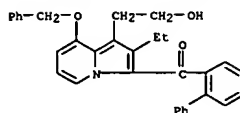


IT 177556-76-2P, 2-[1-Benzyl-6-(3-carboxypropyloxy)-2-ethylindolizine-3-yl]glyoxylamide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(sPLA2 inhibitor; preparation of indolizines as inhibitors of sPLA2 mediated release of fatty acids)

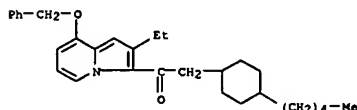
RN 177556-76-2 CAPLUS
CN Butanoic acid, 4-[[3-(aminooxoacetyl)-2-ethyl-1-(phenylmethyl)-6-indolizinyloxy]- (9CI) (CA INDEX NAME)



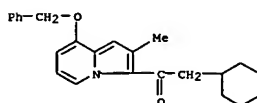
L15 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



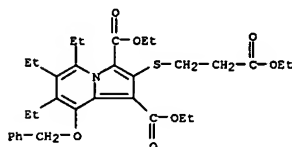
RN 622836-19-5 CAPLUS
CN Ethanone, 1-[2-ethyl-8-(phenylmethoxy)-3-indoliziny]-2-(4-pentylcyclohexyl)- (9CI) (CA INDEX NAME)



RN 622836-20-8 CAPLUS
CN Ethanone, 2-cyclohexyl-1-[2-methyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)



RN 622836-51-5 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 2-[(3-ethoxy-3-oxopropyl)thio]-5,6,7-triethyl-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)



RN 622836-52-6 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 2-[(3-ethoxy-3-oxopropyl)thio]-5,7,8-

L15 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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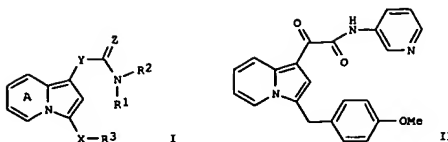
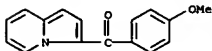
ACCESSION NUMBER: 2003:855698 CAPLUS
 DOCUMENT NUMBER: 139:350631
 TITLE: Preparation of indolizine compounds for treating conditions involving PDE4 or elevated levels of cytokines
 INVENTOR(S): Ono, Mitsunori; Przewlaka, Teresa; James, David; Chimanamada, Dinesh; Lu, Rongzhen; Nagai, Masazumi; Koya, Keizo; Sun, Lijun
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 36 pp., Cont.-in-part of U.S. Ser. No. 319,401.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|----------|
| US 2003204090 | A1 | 20031030 | US 2003-388332 | 20030313 |
| US 2003153759 | A1 | 20030814 | US 2002-244088 | 20020913 |
| US 6861436 | B2 | 20050301 | | |
| EP 1598352 | A1 | 20051123 | EP 2005-16203 | 20020913 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK | | | | |
| US 2004116462 | A1 | 20040617 | US 2002-319401 | 20021212 |
| CA 2509214 | AA | 20040701 | CA 2003-2509214 | 20031210 |
| WO 2004054507 | A2 | 20040701 | WO 2003-US39303 | 20031210 |
| WO 2004054507 | A3 | 20050210 | | |
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TG AU 2003297842 A1 20040709 AU 2003-297842 20031210
 EP 1569644 A2 20050907 EP 2003-796912 20031210
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 JP 2006509842 T2 20060323 JP 2005-508315 20031210
 US 2004214850 A1 20041028 US 2004-849578 20040520
 PRIORITY APPL. INFO.: US 2001-322020P P 20010913

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 WO 2003-US39303 W 20031210

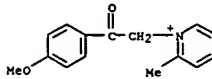
OTHER SOURCE(S): MARPAT 139:350631
 GI



AB Title compds. I (wherein ring A = (un)substituted, optionally fused to an aryl group; Y = C(R4R5), NR4, CO, CS, amide, etc.; Z = O, S, NOR12, NR12; R1, R2 = H, (un)aliphatic, heterocycle, aryl, heteroaryl; R3 = aryl, aliphatic;

X = bond, C(R4R5), NR4, O, S, CO, etc.; R4R5 = H, aliphatic; R12 = H, alkyl), a pharmaceutically acceptable salt or prodrug thereof, were prepared for treating and preventing cancer, inflammatory disorders, autoimmune diseases and other conditions involving PDE4 or elevated levels of cytokines. Thus, indolizine derivative II was prepared via a multistep synthetic sequence starting from 2-picoline, 2-bromo-1-(4-methoxyphenyl)-ethanone, oxalyl chloride and 3-aminopyridine. II showed inhibition of human TNFα (IC50 = < 10 μM) and inhibition of PDE4 (IC50 = < 5 μM).

IT 82746-45-0P 618067-79-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (Preparation of indolizine compds. for treating or preventing cancer, inflammatory disorders, autoimmune diseases and other conditions involving PDE4 or elevated levels of cytokines)
 RN 82746-45-0 CAPLUS
 CH Pyridinium, 1-[2-(4-methoxyphenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)

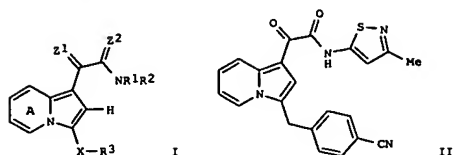


● Br⁻
 RN 618067-79-1 CAPLUS
 CH Methanone, 3-indoliziny1(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 2003:221687 CAPLUS
 DOCUMENT NUMBER: 138:238174
 TITLE: Preparation of 2-(indolizin-1-yl)-N-(isothiazol-5-yl)-2-oxoacetamides for treating cancer
 INVENTOR(S): Koya, Keizo; Sun, Lijun; Ono, Mitsunori; Ying, Weiwen;
 PATENT ASSIGNEE(S): Li, Hao
 SOURCE: SBR Pharmaceuticals Corp., USA
 PCT Int. Appl., 78 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

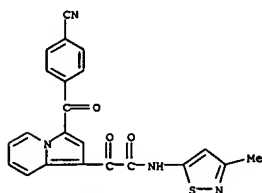
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|----------|
| WO 2003022846 | A1 | 20030320 | WO 2002-US29154 | 20020913 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| CA 2459886 | AA | 20030320 | CA 2002-2459886 | 20020913 |
| EP 1432709 | A1 | 20040630 | EP 2002-798231 | 20020913 |
| EP 1432709 | B1 | 20050727 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK | | | | |
| BR 2002012794 | A | 20041005 | BR 2002-12794 | 20020913 |
| CN 1568324 | A | 20050119 | CN 2002-820284 | 20020913 |
| JP 2005504795 | T2 | 20050217 | JP 2003-526921 | 20020913 |
| AT 300542 | E | 20050815 | AT 2002-798231 | 20020913 |
| PT 1432709 | T | 20051031 | PT 2002-798231 | 20020913 |
| EP 1598352 | A1 | 20051123 | EP 2005-16203 | 20020913 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK | | | | |
| ES 2245747 | T3 | 20060116 | ES 2002-2798231 | 20020913 |
| NO 2004001035 | A | 20040430 | NO 2004-1035 | 20040311 |
| ZA 2004001996 | A | 20050531 | ZA 2004-1996 | 20040311 |
| HK 1063322 | A1 | 20051209 | HK 2004-106091 | 20040813 |
| PRIORITY APPL. INFO.: US 2001-322020P P 20010913 | | | | |
| EP 2002-798231 | A3 | 20020913 | | |
| WO 2002-US29154 | W | 20020913 | | |

OTHER SOURCE(S): MARPAT 138:238174
 GI



AB The title 1-glyoxylylamide indolizines [I; Ring A is (un)substituted and optionally fused to an aryl group; Z1, Z2 = O, S, N(OR12), NR12; R1, R2 = H, (un)substituted aliphatic group, (un)substituted non-aromatic heterocyclic group, etc.; or NR1R2 = (un)substituted non-aromatic nitrogen-containing heterocyclic group or nitrogen-containing heteroaryl group; R3 = (un)substituted aryl or aliphatic group; X = a bond, CR4R5, NR4, O, etc.; R4, R5 = H, (un)substituted aliphatic group; R12 = H, (un)substituted alkyl], useful in treating a multi-drug resistant cancer, were prepared E.g., multi-step synthesis of II, starting from 4-cyanophenacyl bromide and pyridine, was given. The compound II demonstrated significantly high anti-cancer activity (IC50: 0.01-0.05 μ M) against seven cancer cell lines from different tissue type, and also high anti-cancer activity (0.02-0.05 μ M) against two MDR cancer cell lines.

IT 501948-27-2P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of 2-(indolizin-1-yl)-N-(isothiazol-5-yl)-2-oxo-acetamides for treating cancer)
 RN 501948-27-2 CAPLUS
 CN 1-Indolizineacetamide, 3-(4-cyanobenzoyl)-N-(3-methyl-5-isothiazolyl)- α -oxo- (9CI) (CA INDEX NAME)

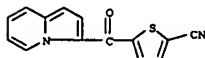


IT 501948-41-0P, 1-Acetyl-3-(4-cyanobenzoyl)indolizine
 501948-42-1P, 3-(4-Cyanobenzoyl)indolizine 501948-51-2P,

L15 ANSWER 9 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN Methanone, 2-furanyl-3-indolizinyll- (9CI) (CA INDEX NAME)

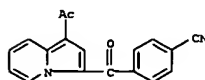


RN 501948-54-5 CAPLUS
 CN 2-Thiophenecarbonitrile, 5-(3-indolizinyllcarbonyl)- (9CI) (CA INDEX NAME)

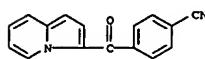


REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

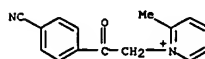
L15 ANSWER 9 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 2-Methyl-1-(4-cyanophenacyl)pyridinium bromide 501948-52-3P,
 4-((6-Hydroxyindolizin-3-yl)carbonyl)benzonitrile 501948-53-4P,
 (Furan-2-yl)indolizin-3-ylmethanone 501948-54-5P,
 5-(Indolizin-3-ylcarbonyl)thiophene-2-carbonitrile
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of 2-(indolizin-1-yl)-N-(isothiazol-5-yl)-2-oxo-acetamides for treating cancer)
 RN 501948-41-0 CAPLUS
 CN Benzonitrile, 4-((1-acetyl-3-indolizinyllcarbonyl)- (9CI) (CA INDEX NAME)



RN 501948-42-1 CAPLUS
 CN Benzonitrile, 4-(3-indolizinyllcarbonyl)- (9CI) (CA INDEX NAME)



RN 501948-51-2 CAPLUS
 CN Pyridinium, 1-[2-(4-cyanophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)

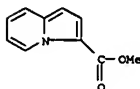


● Br⁻
 RN 501948-52-3 CAPLUS
 CN Benzonitrile, 4-((6-hydroxy-3-indolizinyllcarbonyl)- (9CI) (CA INDEX NAME)

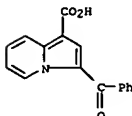


RN 501948-53-4 CAPLUS

L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2002:861066 CAPLUS
 DOCUMENT NUMBER: 139:117275
 TITLE: Product class 16: indolizines
 AUTHOR(S): Shipman, M.
 CORPORATE SOURCE: School of Chemistry, University of Exeter, Exeter, EX4
 SOURCE: 4QD, UK
 Science of Synthesis (2001), 10, 745-787
 CODEN: SSCYJ9
 PUBLISHER: Georg Thieme Verlag
 DOCUMENT TYPE: Journal; General Review
 LANGUAGE: English
 AB A review describes some of the most useful methods for the synthesis of indolizines. The methods described are categorized as synthesis by ring-closure reactions; ring transformation; and substituent modification.
 IT 22320-25-8 25627-87-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (review of preparation of indolizines and synthetic modification of substituents)
 RN 22320-25-8 CAPLUS
 CN 3-Indolizinecarboxylic acid, methyl ester (8CI, 9CI) (CA INDEX NAME)

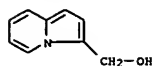


RN 25627-87-6 CAPLUS
 CN 1-Indolizinecarboxylic acid, 3-benzoyl- (8CI, 9CI) (CA INDEX NAME)

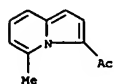


IT 22320-26-9P, 3-Indolizinemethanol 31108-61-9P
 81071-62-7P 81357-79-1P 115058-11-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (review of preparation of indolizines and synthetic modification of substituents)
 RN 22320-26-9 CAPLUS
 CN 3-Indolizinemethanol (8CI, 9CI) (CA INDEX NAME)

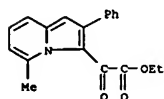
L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



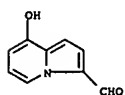
RN 31108-61-9 CAPLUS
CN Ethanone, 1-(5-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)



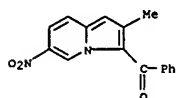
RN 81071-62-7 CAPLUS
CN 3-Indolizinecarboxylic acid, 5-methyl-α-oxo-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 81357-79-1 CAPLUS
CN 3-Indolizinecarboxaldehyde, 8-hydroxy- (9CI) (CA INDEX NAME)

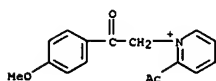


RN 115058-11-2 CAPLUS
CN Methanone, (2-methyl-6-nitro-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



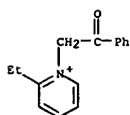
IT 1026-29-5 1822-17-9 3792-44-7

L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



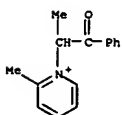
● Br⁻

RN 5994-36-5 CAPLUS
CN Pyridinium, 2-ethyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 6028-81-5 CAPLUS
CN Pyridinium, 2-methyl-1-(1-methyl-2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

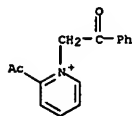
RN 22320-34-9 CAPLUS
CN Pyridinium, 5-(aminocarbonyl)-2-methyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

5994-36-5 6028-81-5 22320-34-9
60891-71-6 74360-64-8 96206-84-7
96206-85-8 96206-86-9 162377-92-6
372517-42-5

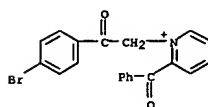
RL: RCT (Reactant); RACT (Reactant or reagent)
(review of prepn. of indolizines via ring-closure reactions and ring transformations)

RN 1026-29-5 CAPLUS
CN Pyridinium, 2-acetyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

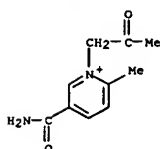
RN 1822-17-9 CAPLUS
CN Pyridinium, 2-benzoyl-1-[2-(4-bromophenyl)-2-oxoethyl]-, bromide (9CI) (CA INDEX NAME)



● Br⁻

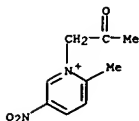
RN 3792-44-7 CAPLUS
CN Pyridinium, 2-acetyl-1-[2-(4-methoxyphenyl)-2-oxoethyl]-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



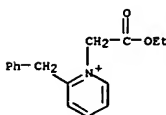
● Br⁻

RN 60891-71-6 CAPLUS
CN Pyridinium, 2-methyl-5-nitro-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

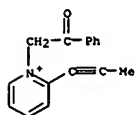
RN 74360-64-8 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

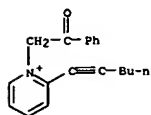
RN 96206-84-7 CAPLUS
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(1-propynyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
INDEX NAME)



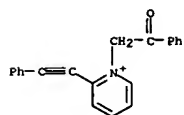
● Br⁻

RN 96206-85-8 CAPLUS
CN Pyridinium, 2-(1-hexynyl)-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 96206-86-9 CAPLUS
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(phenylethynyl)-, bromide (9CI) (CA INDEX NAME)

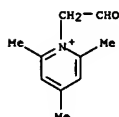


● Br⁻

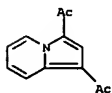
RN 162377-92-6 CAPLUS

L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

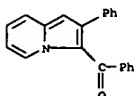
RN 113728-80-6 CAPLUS
CN Pyridinium, 2,4,6-trimethyl-1-(2-oxoethyl)- (9CI) (CA INDEX NAME)



IT 525-42-8P, 1,3-Diacetylindolizine 14759-45-6P
17281-78-6P 18782-31-5P 25314-92-5P
25627-81-0P 36944-59-9P 36944-82-8P
36990-52-0P 55814-14-7P 56871-63-7P,
3-Indolizinecarboxaldehyde 82884-78-4P 96206-93-8P
100393-31-5P 127391-42-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(review of preparation of indolizines via ring-closure reactions and
ring transformations)
RN 525-42-8 CAPLUS
CN Ethanone, 1,1'-(1,3-indolizinediyl)bis- (9CI) (CA INDEX NAME)



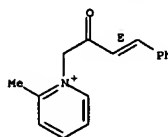
RN 14759-45-6 CAPLUS
CN Methanone, phenyl(2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 17281-78-6 CAPLUS
CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-, dimethyl ester (6CI, 8CI, 9CI) (CA INDEX NAME)

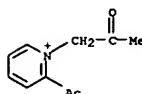
L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN Pyridinium, 2-methyl-1-[(3E)-2-oxo-4-phenyl-3-butenyl]-, bromide (9CI) (CA INDEX NAME)

Double bond geometry as shown.



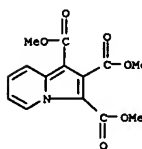
● Br⁻

RN 372517-42-5 CAPLUS
CN Pyridinium, 2-acetyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

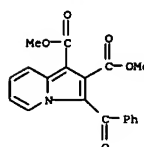


● Br⁻

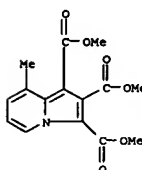
IT 4491-43-4P 113728-80-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(review of preparation of indolizines via ring-closure reactions and
ring transformations)
RN 4491-43-4 CAPLUS
CN 1,2,3-Indolizinetetracarboxylic acid, trimethyl ester (7CI, 8CI, 9CI) (CA INDEX NAME)



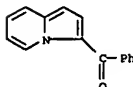
L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



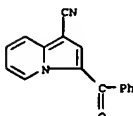
RN 18782-31-5 CAPLUS
CN 1,2,3-Indolizinetetracarboxylic acid, 8-methyl-, trimethyl ester (6CI, 8CI, 9CI) (CA INDEX NAME)



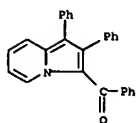
RN 25314-92-5 CAPLUS
CN Methanone, 3-indolizinyphenyl- (9CI) (CA INDEX NAME)



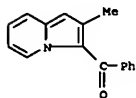
RN 25627-81-0 CAPLUS
CN 1-Indolizinecarbonitrile, 3-benzoyl- (8CI, 9CI) (CA INDEX NAME)



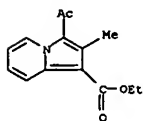
RN 36944-59-9 CAPLUS
CN Methanone, (1,2-diphenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



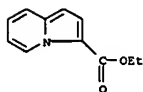
RN 36944-82-8 CAPLUS
CN Methanone, (2-methyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



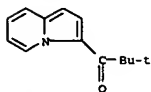
RN 36990-52-0 CAPLUS
CN 1-Indolizinecarboxylic acid, 3-acetyl-2-methyl-, ethyl ester (7CI, 9CI) (CA INDEX NAME)



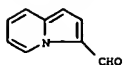
RN 55814-14-7 CAPLUS
CN 3-Indolizinecarboxylic acid, ethyl ester (9CI) (CA INDEX NAME)



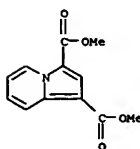
RN 56671-63-7 CAPLUS
CN 3-Indolizinecarboxaldehyde (9CI) (CA INDEX NAME)



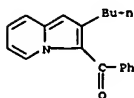
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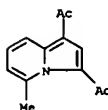
RN 82884-78-4 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



RN 96206-93-8 CAPLUS
CN Methanone, (2-butyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)

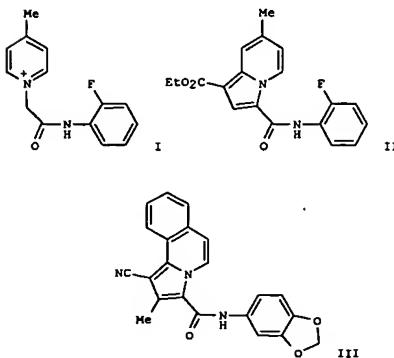


RN 100393-31-5 CAPLUS
CN Ethanone, 1,1'-(5-methyl-1,3-indolizinediyl)bis- (9CI) (CA INDEX NAME)



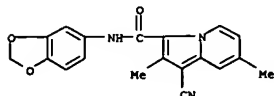
RN 127391-42-8 CAPLUS
CN 1-Propanone, 1-(3-indoliziny)-2,2-dimethyl- (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 2002:715248 CAPLUS
DOCUMENT NUMBER: 138:337957
TITLE: New N-bridgehead heterocyclic compounds. I. Carbamoyl-substituted indolizines and benzindolizines
AUTHOR(S): Georgescu, Emilian; Georgescu, Florentina; Danila, Mariana G.; Filip, Petru I.; Draghici, Constantin; Caproiu, Miron T.
CORPORATE SOURCE: S.C. OLTCHIM-Research Center, Ramnicu Valcea, 1000, Rom.
SOURCE: ARKIVOC (Gainesville, FL, United States) [online computer file] (2002), (2), 30-45
CODEN: AGFUAR
URL: <http://www.arkat-usa.org/ark/journal/2002/Neitzeacu/CN-420290/CN-290.pdf>
PUBLISHER: Arkat USA Inc.
DOCUMENT TYPE: Journal; (online computer file)
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:337957
GI

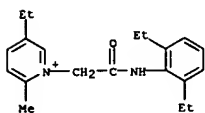


AB Quaternary salts, e.g., I-Cl⁻, obtained by the reaction of several pyridines and benzopyridines with chloro- or bromoacetanilides were reacted with corresponding activated alkynes, e.g., EtO₂C.tplbond.CH, in the presence of an oxirane, yielding new carbamoyl-substituted indolizines, e.g., II, and benzindolizines derivs. Other new 3-carbamoyl substituted indolizine and pyrrolo[2,1-a]isoquinolines, e.g., III, were

L15 ANSWER 11 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 obtained by heating the intermediate N-methylcarbamoyl quaternary salts, in the presence of an acid acceptor, with alkenes and tetrapyrindinecobalt(III) dichromate as a reaction promoter and dehydrogenating catalyst. The new compds. are fully characterized by elemental microanal. and IR, 1H and 13C NMR spectra.
 IT 515179-11-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of carbamoylindolizine via cycloaddn. of crotononitrile to (carbamoylmethyl)pyridinium quaternary salt in the presence of tetrapyrindinecobalt dichromate)
 RN 515179-11-0 CAPLUS
 CN 3-Indolizinecarboxamide, N-1,3-benzodioxol-5-yl-1-cyano-2,7-dimethyl- (9CI) (CA INDEX NAME)



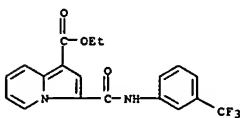
IT 374552-39-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of carbamoylindolizines via dipolar cycloaddn. of alkynes to (carbamoylmethyl)pyridinium chlorides)
 RN 374552-39-3 CAPLUS
 CN Pyridinium, 1-[2-((2,6-diethylphenyl)amino)-2-oxoethyl]-5-ethyl-2-methyl-, chloride (9CI) (CA INDEX NAME)



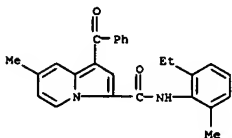
• Cl⁻

IT 374679-28-4P 374679-29-5P 374679-30-8P
 374679-31-9P 374679-51-3P 515178-95-7P
 515178-96-8P 515178-97-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of carbamoylindolizines via dipolar cycloaddn. of alkynes to (carbamoylmethyl)pyridinium chlorides)
 RN 374679-28-4 CAPLUS
 CN 1-Indolizinecarboxylic acid, 3-[[[(2-fluorophenyl)amino]carbonyl]-7-methyl-

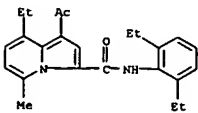
L15 ANSWER 11 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 CN 1-Indolizinecarboxylic acid, 3-[[[(3-(trifluoromethyl)phenyl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 515178-95-7 CAPLUS
 CN 3-Indolizinecarboxamide, 1-benzoyl-N-(2-ethyl-6-methylphenyl)-7-methyl- (9CI) (CA INDEX NAME)

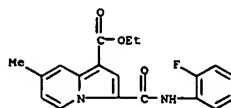


RN 515178-96-8 CAPLUS
 CN 3-Indolizinecarboxamide, 1-acetyl-N-(2,6-diethylphenyl)-8-ethyl-5-methyl- (9CI) (CA INDEX NAME)

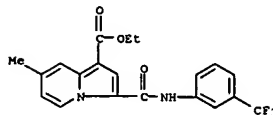


RN 515178-97-9 CAPLUS
 CN 1-Indolizinecarboxylic acid, 3-[[[(2,6-diethylphenyl)amino]carbonyl]-8-ethyl-5-methyl-, methyl ester (9CI) (CA INDEX NAME)

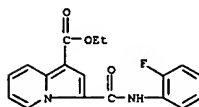
L15 ANSWER 11 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 , ethyl ester (9CI) (CA INDEX NAME)



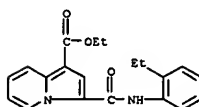
RN 374679-29-5 CAPLUS
 CN 1-Indolizinecarboxylic acid, 7-methyl-3-[[[(3-(trifluoromethyl)phenyl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 374679-30-8 CAPLUS
 CN 1-Indolizinecarboxylic acid, 3-[[[(2-fluorophenyl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)

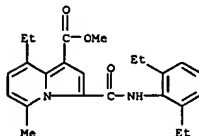


RN 374679-31-9 CAPLUS
 CN 1-Indolizinecarboxylic acid, 3-[[[(2-ethylphenyl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



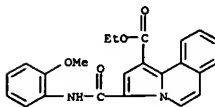
RN 374679-51-3 CAPLUS

L15 ANSWER 11 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

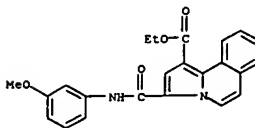


IT 374679-41-1P 374679-42-2P 374679-43-3P
 374679-44-4P 515178-99-1P 515179-00-7P
 515179-01-8P 515179-02-9P 515179-03-0P
 515179-04-1P 515179-05-2P 515179-06-3P
 515179-07-4P 515179-08-5P 515179-09-6P
 515179-10-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of carbamoylpyrroloisoquinolines via dipolar cycloaddn. of alkynes to (carbamoylmethyl)isoquinolinium chlorides)

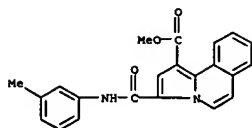
RN 374679-41-1 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-[[[(2-methoxyphenyl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



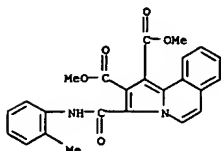
RN 374679-42-2 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-[[[(3-methoxyphenyl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



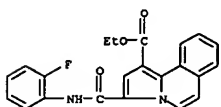
RN 374679-43-3 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-[[[(3-methylphenyl)amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



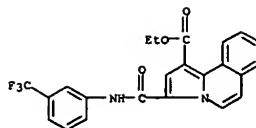
RN 374679-44-4 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-[[[2-methylphenyl]amino]carbonyl]-, dimethyl ester (9CI) (CA INDEX NAME)



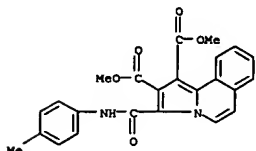
RN 515178-99-1 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-[[[3-(4-fluorophenyl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



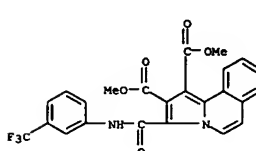
RN 515179-00-7 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-[[[3-(trifluoromethyl)phenyl]amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



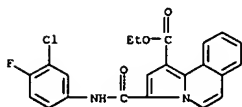
RN 515179-01-8 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-[[[3-(4-trifluoromethylphenyl)amino]carbonyl]-, dimethyl ester (9CI) (CA INDEX NAME)



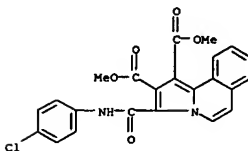
RN 515179-02-9 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-[[[3-(trifluoromethyl)phenyl]amino]carbonyl]-, dimethyl ester (9CI) (CA INDEX NAME)



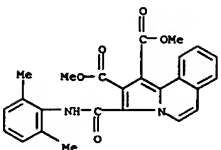
RN 515179-03-0 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-[[[3-(4-chloro-4-fluorophenyl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



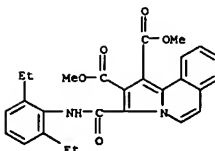
RN 515179-04-1 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-[[[4-chlorophenyl]amino]carbonyl]-, dimethyl ester (9CI) (CA INDEX NAME)



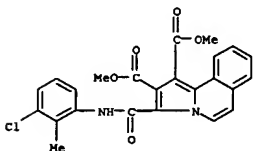
RN 515179-05-2 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-[[[2,6-dimethylphenyl]amino]carbonyl]-, dimethyl ester (9CI) (CA INDEX NAME)



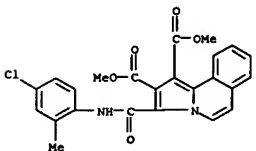
RN 515179-06-3 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-[[[2,6-diethylphenyl]amino]carbonyl]-, dimethyl ester (9CI) (CA INDEX NAME)



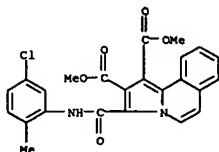
RN 515179-07-4 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-[[[3-chloro-2-methylphenyl]amino]carbonyl]-, dimethyl ester (9CI) (CA INDEX NAME)



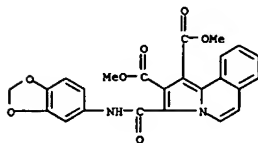
RN 515179-08-5 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-[[[4-chloro-2-methylphenyl]amino]carbonyl]-, dimethyl ester (9CI) (CA INDEX NAME)



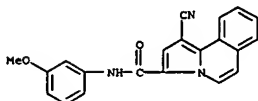
RN 515179-09-6 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-[[[5-chloro-2-methylphenyl]amino]carbonyl]-, dimethyl ester (9CI) (CA INDEX NAME)



RN 515179-10-9 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-((1,3-benzodioxol-5-ylamino)carbonyl)-, dimethyl ester (9CI) (CA INDEX NAME)



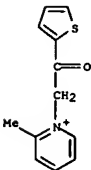
IT 214604-18-9P 374636-57-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of carbamoylpyrroloisoquinolines via cycloaddn. of crotononitrile or acrylonitrile to (carbamoylmethyl)isoquinolinium quaternary salt in the presence of tetrapyridinecobalt dichromate)
RN 214604-18-9 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-3-carboxamide, 1-cyano-N-(3-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 374636-57-4 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-3-carboxamide, 1-cyano-2-methyl-N-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

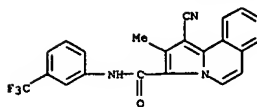
ACCESSION NUMBER: 2002:622701 CAPLUS
DOCUMENT NUMBER: 138:89650
TITLE: N-Bridgehead heterocyclic compounds thenoyl-substituted. I Indolizines and benzoindolizines
AUTHOR(S): Georgescu, Emilian I.; Georgescu, Florentina; Roibu, Constantin; Draghici, Constantin C.; Caproiu, Miron T.
CORPORATE SOURCE: S. C. Olchim S. A. Research Center, Ramnicu Valcea, 1000, Rom.
SOURCE: Revue Roumaine de Chimie (2002), Volume Date 2001, 46(4), 357-362
CODEN: RRCHUX; ISSN: 0035-3930
PUBLISHER: Editura Academiei Romane
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:89650

AB New thenoyl-substituted indolizine and benzoindolizine deriva. were obtained by the reactions of pyridines and benzopyridines with 2-bromoacetylthiophene followed by the reactions of the resulting quaternary salts with activated acetylenic compds. in the presence of an epoxide. This synthetic procedure was applied for the synthesis of some thenoyl-substituted indolizines, pyrrolo[1,2-a]quinolines and pyrrolo[2,1-a]isoquinolines, otherwise difficult to obtain.
IT 26019-10-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of thenoylindolizines and -benzoindolizines)
RN 26019-10-3 CAPLUS
CN Pyridinium, 2-methyl-1-(2-oxo-2-(2-thienyl)ethyl)-, bromide (9CI) (CA INDEX NAME)

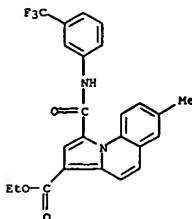


● Br⁻

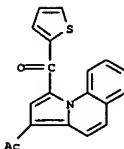
IT 302913-60-6P 302913-61-7P 374679-16-0P
374679-17-1P 374679-26-2P 374679-53-5P
482579-33-9P 482579-34-0P 482579-35-1P
482579-36-2P 482579-37-3P 482579-38-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of thenoylindolizines and -benzoindolizines)
RN 302913-60-6 CAPLUS
CN Ethanone, 1-[1-(2-thienylcarbonyl)pyrrolo[1,2-a]quinolin-3-yl]- (9CI) (CA INDEX NAME)



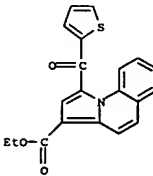
IT 515178-98-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of carbamoylpyrroloquinoline via dipolar cycloaddn. of alkyne to (carbamoylmethyl)quinolinium bromide)
RN 515178-98-0 CAPLUS
CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 7-methyl-1-[[[3-(trifluoromethyl)phenyl]amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



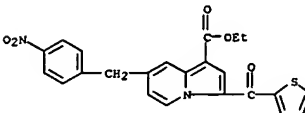
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



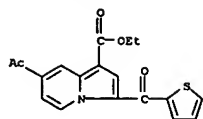
RN 302913-61-7 CAPLUS
CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 1-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



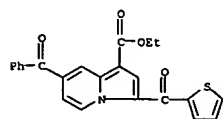
RN 374679-16-0 CAPLUS
CN 1-Indolizinecarboxylic acid, 7-[(4-nitrophenyl)methyl]-3-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



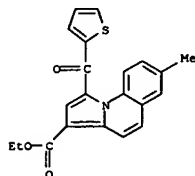
RN 374679-17-1 CAPLUS
CN 1-Indolizinecarboxylic acid, 7-acetyl-3-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



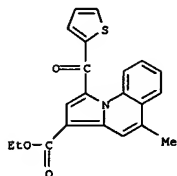
RN 374679-26-2 CAPLUS
CN 1-Indolizinecarboxylic acid, 7-benzoyl-3-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



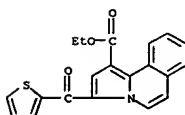
RN 374679-53-5 CAPLUS
CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 7-methyl-1-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



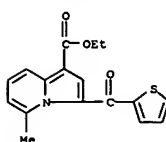
RN 482579-33-9 CAPLUS
CN 1-Indolizinecarboxylic acid, 5-methyl-3-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



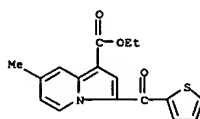
RN 482579-38-4 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



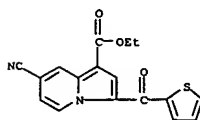
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT



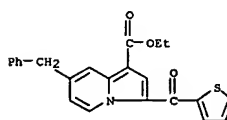
RN 482579-34-0 CAPLUS
CN 1-Indolizinecarboxylic acid, 7-methyl-3-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 482579-35-1 CAPLUS
CN 1-Indolizinecarboxylic acid, 7-cyano-3-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 482579-36-2 CAPLUS
CN 1-Indolizinecarboxylic acid, 7-(phenylmethyl)-3-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



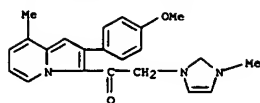
RN 482579-37-3 CAPLUS
CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 5-methyl-1-(2-thienylcarbonyl)-

ACCESSION NUMBER: 2001:654637 CAPLUS
DOCUMENT NUMBER: 135:215749
TITLE: Keratin fiber dye compositions containing indolizine cationic derivatives as coupling agents
INVENTOR(S): Breton, Philippe; Segala, Fabienne; Lagrange, Alain
PATENT ASSIGNEE(S): L'oreal, Fr.
SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXKDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------------------------------------------------------------------------------------|------|--------------|-----------------|----------|
| EP 1129690 | A2 | 20010905 | EP 2001-400430 | 20010219 |
| EP 1129690 | A3 | 20011128 | | |
| EP 1129690 | B1 | 20050105 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| FR 2805460 | A1 | 20010831 | FR 2000-2419 | 20000225 |
| AT 286376 | E | 20050115 | AT 2001-400430 | 20010219 |
| ES 2236150 | T3 | 20050716 | ES 2001-1400430 | 20010219 |
| CA 2338258 | AA | 20010825 | CA 2001-2338258 | 20010226 |
| JP 2001270813 | A2 | 20011002 | JP 2001-51270 | 20010226 |
| US 2001044974 | A1 | 20011129 | US 2001-791822 | 20010226 |
| US 2003028975 | A9 | 20030213 | | |
| US 6579326 | B2 | 20030617 | | |
| PRIORITY APPLN. INFO.: | | FR 2000-2419 | A | 20000225 |

OTHER SOURCE(S): MARPAT 135:215749
AB The title oxidative hair dye compns. are disclosed. Thus, 7-methyl-2-phenyl-3-(2-pyridin-2-yl-ethyl)-indolizine was refluxed with di-Me sulfate in Et acetate for 2 h to obtain 1-methyl-2-[2-(7-methyl-2-phenyl-indolizin-3-yl)-ethyl]-pyridinium (I). A hair dye composition contained I 3x10⁻³, paratoluylenediamine 3x10⁻³ mole, water and excipients q.s. 100 g. Equal amount of the composition is mixed with 20 volume hydrogen peroxide and applied on the hair for 30 min. The hair is then rinsed with water, washed with shampoo and dried to obtain a golden blond color.
IT 358359-14-5 358359-15-6 358359-16-7 358359-17-8 358359-18-9 358359-19-0 358359-20-3 358359-21-4 358359-22-5 358359-23-6 358359-24-7 358359-25-8 358359-26-9 358359-27-0 358359-28-1 358359-29-2
RL: RUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (keratin fiber dye compns. containing indolizine cationic deriva. as coupling agents)
RN 358359-14-5 CAPLUS
CN 1H-Imidazolium, 1-[2-[2-(4-methoxyphenyl)-8-methyl-3-indoliziny]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

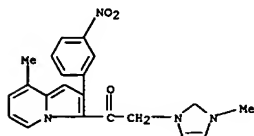
L15 ANSWER 13 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 358359-15-6 CAPLUS

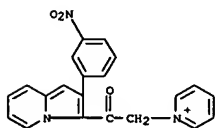
CN 1H-Imidazolium,
1-methyl-3-[2-(8-methyl-2-(3-nitrophenyl)-3-indoliziny)]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

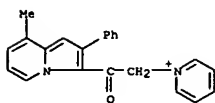
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 358359-16-7 CAPLUS

CN Pyridinium, 1-[2-(2-(3-nitrophenyl)-3-indoliziny)]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

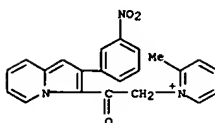
L15 ANSWER 13 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● Cl⁻

RN 358359-21-4 CAPLUS

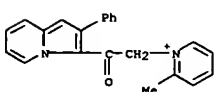
CN Pyridinium, 2-methyl-1-[2-(2-(3-nitrophenyl)-3-indoliziny)]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 358359-22-5 CAPLUS

CN Pyridinium, 2-methyl-1-[2-(2-(3-nitrophenyl)-3-indoliziny)]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

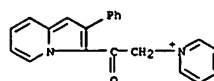
RN 358359-23-6 CAPLUS

CN Pyridinium, 2-methyl-1-[2-(2-(3-nitrophenyl)-3-indoliziny)]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)

L15 ANSWER 13 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 358359-17-8 CAPLUS

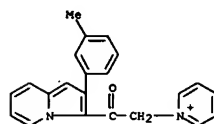
CN Pyridinium, 1-[2-oxo-2-(2-phenyl-3-indoliziny)]ethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 358359-18-9 CAPLUS

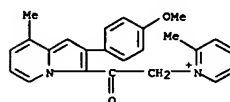
CN Pyridinium, 1-[2-[2-(3-methylphenyl)-3-indoliziny]]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 358359-19-0 CAPLUS

CN Pyridinium,
1-[2-[2-(4-methoxyphenyl)-8-methyl-3-indoliziny]]-2-oxoethyl]-, 2-methyl-, chloride (9CI) (CA INDEX NAME)

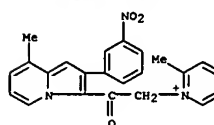


● Cl⁻

RN 358359-20-3 CAPLUS

CN Pyridinium, 1-[2-(8-methyl-2-phenyl-3-indoliziny)]-2-oxoethyl]-, chloride

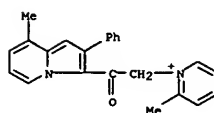
L15 ANSWER 13 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● Cl⁻

RN 358359-24-7 CAPLUS

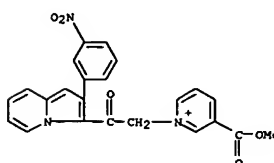
CN Pyridinium, 2-methyl-1-[2-(8-methyl-2-phenyl-3-indoliziny)]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 358359-25-8 CAPLUS

CN Pyridinium, 3-(methoxycarbonyl)-1-[2-[2-(3-nitrophenyl)-3-indoliziny]]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)

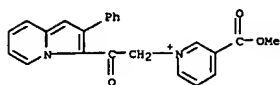


● Cl⁻

RN 358359-26-9 CAPLUS

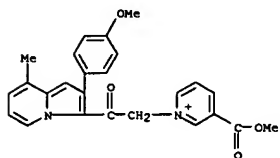
CN Pyridinium,
3-(methoxycarbonyl)-1-[2-oxo-2-(2-phenyl-3-indoliziny)]ethyl]-

L15 ANSWER 13 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 , chloride (9CI) (CA INDEX NAME)



● Cl⁻

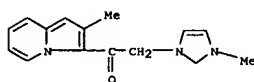
RN 358359-27-0 CAPLUS
 CN Pyridinium, 3-(methoxycarbonyl)-1-[2-(2-(4-methoxyphenyl)-8-methyl-3-indoliziny)]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 358359-28-1 CAPLUS
 CN Pyridinium, 3-(methoxycarbonyl)-1-[2-(2-(8-methyl-2-(3-nitrophenyl)-3-indoliziny)]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)

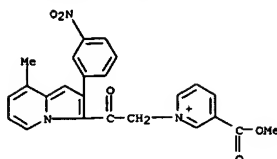
L15 ANSWER 13 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 358359-10-1 CAPLUS
 CN 1H-Imidazolium, 1-methyl-3-[2-(2-methyl-3-indoliziny)]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

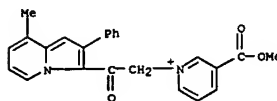
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L15 ANSWER 13 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



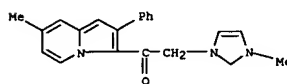
● Cl⁻

RN 358359-29-2 CAPLUS
 CN Pyridinium, 3-(methoxycarbonyl)-1-[2-(2-(8-methyl-2-phenyl-3-indoliziny)]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



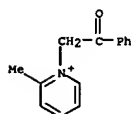
● Cl⁻

IT 358359-09-8P 358359-10-1P
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (keratin fiber dye compns. containing indolizine cationic derivs. as coupling agents)
 RN 358359-09-8 CAPLUS
 CN 1H-Imidazolium, 1-methyl-3-[2-(2-(7-methyl-2-phenyl-3-indoliziny)]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



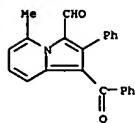
● Cl⁻

L15 ANSWER 14 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:633822 CAPLUS
 DOCUMENT NUMBER: 135:371591
 TITLE: Preparation of pyrrolo[2,1,5-cd]indolizine derivatives
 by intramolecular condensation of 3-acyl-5-methylindolizines
 AUTHOR(S): Liang, Feng; HU, Jiaxin; Zhang, Lande; HU, Yuefei; HU, Hongwen
 CORPORATE SOURCE: Department of Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China
 SOURCE: Journal of Heterocyclic Chemistry (2001), 38(4), 853-857
 CODEN: JHCTAD; ISSN: 0022-152X
 PUBLISHER: HeteroCorporation
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 135:371591
 AB An efficient two step route was developed to synthesize pyrrolo[2,1,5-cd]indolizine derivs. The reaction sequence proceeds via preparation of 3-acyl-5-methylindolizines followed by an intramol. condensation. The procedures were carried out under convenient conditions and gave the products in high yields. It could be expected to be used to prepare a broad range of potentially interesting pyrrolo[2,1,5-cd]indolizine derivs.
 IT 32896-98-3P 38493-33-3P 75487-74-0P
 122245-68-5P 133619-68-8P 154224-60-9P
 374106-40-8P 374106-41-9P 374106-42-0P
 374106-43-1P 374106-44-2P 374106-46-4P
 374106-47-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of pyrrolo[2,1,5-cd]indolizine derivs. by condensation of (acyl) (methyl)indolizines)
 RN 32896-98-3 CAPLUS
 CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

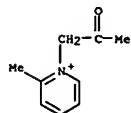


● Br⁻

RN 38493-33-3 CAPLUS
 CN 3-Indolizinecarboxaldehyde, 1-benzoyl-5-methyl-2-phenyl- (9CI) (CA INDEX NAME)

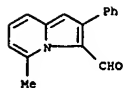


RN 75487-74-0 CAPLUS
CN Pyridinium, 2-methyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

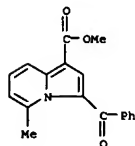


● Br⁻

RN 122245-68-5 CAPLUS
CN 3-Indolizinecarboxaldehyde, 5-methyl-2-phenyl- (9CI) (CA INDEX NAME)

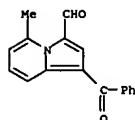


RN 133619-68-8 CAPLUS
CN 1-Indolizinecarboxylic acid, 3-benzoyl-5-methyl-, methyl ester (9CI) (CA INDEX NAME)

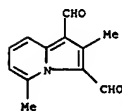


RN 154224-60-9 CAPLUS

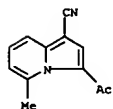
L15 ANSWER 14 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RN 374106-43-1 CAPLUS
CN 3-Indolizinecarboxaldehyde, 1-benzoyl-5-methyl- (9CI) (CA INDEX NAME)



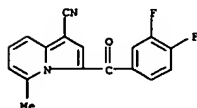
RN 374106-44-2 CAPLUS
CN 1,3-Indolizinedicarboxaldehyde, 2,5-dimethyl- (9CI) (CA INDEX NAME)



RN 374106-46-4 CAPLUS
CN 1-Indolizinecarbonitrile, 3-acetyl-5-methyl- (9CI) (CA INDEX NAME)

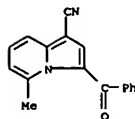


RN 374106-47-5 CAPLUS
CN 1-Indolizinecarbonitrile, 3-(3,4-difluorobenzoyl)-5-methyl- (9CI) (CA INDEX NAME)

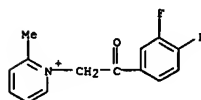


REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L15 ANSWER 14 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN 1-Indolizinecarbonitrile, 3-benzoyl-5-methyl- (9CI) (CA INDEX NAME)

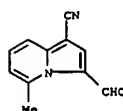


RN 374106-40-8 CAPLUS
CN Pyridinium, 1-[2-(3,4-difluorophenyl)-2-oxoethyl]-2-methyl-, chloride (9CI) (CA INDEX NAME)

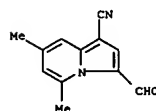


● Cl⁻

RN 374106-41-9 CAPLUS
CN 1-Indolizinecarbonitrile, 3-formyl-5-methyl- (9CI) (CA INDEX NAME)



RN 374106-42-0 CAPLUS
CN 1-Indolizinecarbonitrile, 3-formyl-5,7-dimethyl- (9CI) (CA INDEX NAME)



L15 ANSWER 14 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

TITLE: Novel synthetic routes to nitrogen-bridged tricyclic derivatives of pyrrolo[2,1,5-cd]indolizine and pyrrolo[2,1,5-de]quinolizine derived from 2-acyl-N-(acetylmethyl)pyridinium halides
 AUTHOR(S): Hu, Jiaxin; Jiang, Xin; He, Ting; Zhou, Jian; Hu, Yuefei; Hu, Hongwen
 CORPORATE SOURCE: Department of Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China
 SOURCE: Journal of the Chemical Society, Perkin Transactions 1

(2001), (15), 1820-1825

CODEN: JCSPCE; ISSN: 1472-7781

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:357831

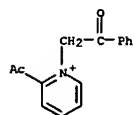
AB Novel synthetic routes to nitrogen-bridged derivs. of pyrrolo[2,1,5-cd]indolizine and pyrrolo[2,1,5-de]quinolizine were developed starting from 2-acyl-1-(acetylmethyl)pyridinium halides. Thus, 2-benzoyl-N-phenacylpyridinium bromide gave 3,4-diphenylpyrrolo[2,1,5-cd]indolizines via 1,3-dipolar cycloaddn., which yielded 3,5-dibenzoylindolizines, followed by intramol. McMurry coupling. Similarly, 2-(1,3-dioxolan-2-yl)-N-phenacylpyridinium bromide gave 3-phenylpyrrolo[2,1,5-cd]indolizine together with an unexpected products, 3-phenyl-4-hydroxypyrrolo[2,1,5-cd]indolizines. However, 2-acetyl-N-phenacylpyridinium bromide or 2-benzoyl-N-acetonylpyridinium bromide underwent a tandem reaction of aldol condensation and 1,3-dipolar cycloaddn. to form 3-phenyl-5H-pyrrolo[2,1,5-de]quinolizine-5-ones or 5-phenyl-3H-pyrrolo[2,1,5-de]quinolizine-3-ones in a single step. These novel procedures are

general and can be carried out under convenient conditions.
 IT 1026-29-5 108325-73-1 372517-42-5

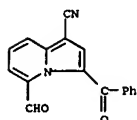
RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of pyrrolo[2,1,5-cd]indolizine and pyrrolo[2,1,5-de]quinolizine derivs. from 2-acyl-1-(acetylmethyl)pyridinium halides)

RN 1026-29-5 CAPLUS

CN Pyridinium, 2-acetyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

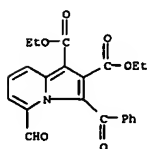
● Br⁻

RN 108325-73-1 CAPLUS



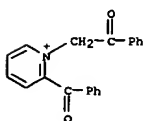
RN 213549-49-6 CAPLUS

CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-5-formyl-, diethyl ester (9CI) (CA INDEX NAME)



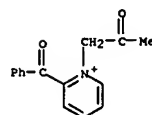
RN 372517-21-0 CAPLUS

CN Pyridinium, 2-benzoyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

● Br⁻

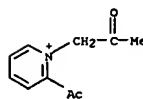
RN 372517-24-3 CAPLUS

CN 1-Indolizinecarboxylic acid, 3,5-dibenzoyl- (9CI) (CA INDEX NAME)

● Br⁻

RN 372517-42-5 CAPLUS

CN Pyridinium, 2-acetyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

● Br⁻

IT 135489-62-2P 213549-46-3P 213549-49-6P

372517-21-0P 372517-24-3P 372517-26-5P

372517-27-6P

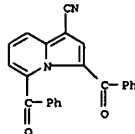
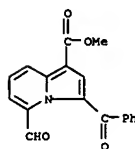
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pyrrolo[2,1,5-cd]indolizine and pyrrolo[2,1,5-de]quinolizine

derivs. from 2-acyl-1-(acetylmethyl)pyridinium halides)

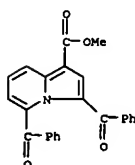
RN 135489-62-2 CAPLUS

CN 1-Indolizinecarboxylic acid, 3-benzoyl-5-formyl-, methyl ester (9CI) (CA INDEX NAME)



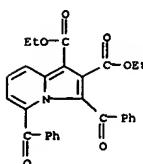
RN 372517-26-5 CAPLUS

CN 1-Indolizinecarboxylic acid, 3,5-dibenzoyl-, methyl ester (9CI) (CA INDEX NAME)



RN 372517-27-6 CAPLUS

CN 1,2-Indolizinedicarboxylic acid, 3,5-dibenzoyl-, diethyl ester (9CI) (CA INDEX NAME)

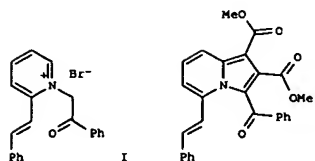


REFERENCE COUNT: THIS

45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L15 ANSWER 16 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1999:177056 CAPLUS
 DOCUMENT NUMBER: 130:337984
 TITLE: Synthesis of 5-(2-phenylethenyl)indolizines by selective intermolecular 1,3-dipolar cycloaddition of 2-(2-phenylethenyl)pyridinium N-ylide with alkenes promoted by tetrakis-pyridine cobalt(II) dichromate
 AUTHOR(S): Zhou, Jian; Hu, Yuefei; Hu, Hongwen
 CORPORATE SOURCE: Department of Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China
 SOURCE: Journal of Chemical Research, Synopses (1999), (2), 136-137
 CODEN: JRPSCD; ISSN: 0308-2342
 PUBLISHER: Royal Society of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 130:337984
 GI



AB Intermol. 1,3-dipolar cycloaddns. of 2-(2-phenylethenyl)pyridinium N-ylides, e.g. I, with electron-deficient alkenes, e.g. di-Me maleate, were carried out selectively in the presence of tetrakis-pyridine cobalt(II) dichromate to yield 5-(2-phenylethenyl)indolizines, e.g. II,

in moderate yields (48-63%).

IT 224425-25-6 224425-27-8 224425-29-0

RL: RCT (Reactant); RACT (Reactant or reagent)

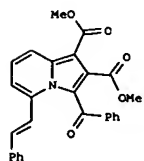
(preparation of indolizines by intermol. dipolar pyridine cobalt dichromate promoted cycloaddn. of (phenylethenyl)pyridinium N-ylides with electron

deficient alkenes.)

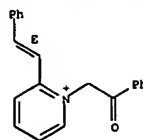
RN 224425-25-6 CAPLUS

CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-[(1E)-2-phenylethenyl]-, bromide (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L15 ANSWER 16 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

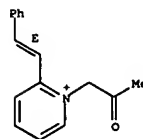


● Br⁻

RN 224425-27-8 CAPLUS

CN Pyridinium, 1-(2-oxopropyl)-2-[(1E)-2-phenylethenyl]-, bromide (9CI) (CA INDEX NAME)

Double bond geometry as shown.

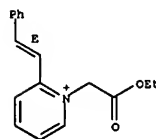


● Br⁻

RN 224425-29-0 CAPLUS

CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-[(1E)-2-phenylethenyl]-, bromide (9CI) (CA INDEX NAME)

Double bond geometry as shown.



● Br⁻

L15 ANSWER 16 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

IT 224425-03-0P 224425-06-3P 224425-09-6P

224425-10-9P 224425-12-1P 224425-14-3P

224425-17-6P 224425-19-8P

RL: SPN (Synthetic preparation); PREP (Preparation)

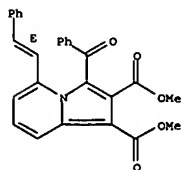
(preparation of indolizines by intermol. dipolar pyridine cobalt dichromate promoted cycloaddn. of (phenylethenyl)pyridinium N-ylides with electron

deficient alkenes.)

RN 224425-03-0 CAPLUS

CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-5-[(1E)-2-phenylethenyl]-, dimethyl ester (9CI) (CA INDEX NAME)

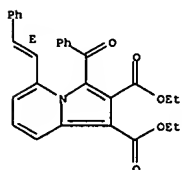
Double bond geometry as shown.



RN 224425-06-3 CAPLUS

CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-5-[(1E)-2-phenylethenyl]-, diethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

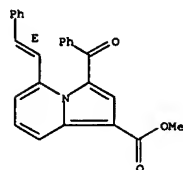


RN 224425-09-6 CAPLUS

CN 1-Indolizinecarboxylic acid, 3-benzoyl-5-[(1E)-2-phenylethenyl]-, methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

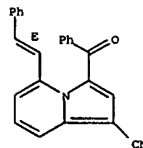
L15 ANSWER 16 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 224425-10-9 CAPLUS

CN 1-Indolizinecarboxylic acid, 3-benzoyl-5-[(1E)-2-phenylethenyl]- (9CI) (CA INDEX NAME)

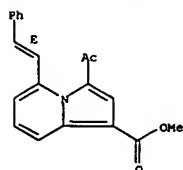
Double bond geometry as shown.



RN 224425-12-1 CAPLUS

CN 1-Indolizinecarboxylic acid, 3-acetyl-5-[(1E)-2-phenylethenyl]-, methyl ester (9CI) (CA INDEX NAME)

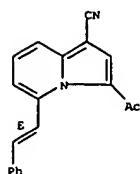
Double bond geometry as shown.



RN 224425-14-3 CAPLUS

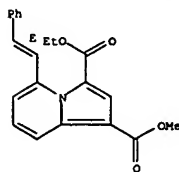
CN 1-Indolizinecarboxylic acid, 3-acetyl-5-[(1E)-2-phenylethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



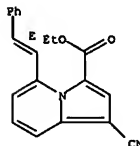
RN 224425-17-6 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 5-[(1E)-2-phenylethenyl]-, 3-ethyl 1-methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

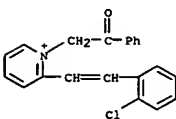


RN 224425-19-8 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-cyano-5-[(1E)-2-phenylethenyl]-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

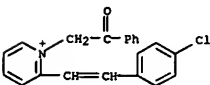


REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.



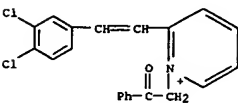
● Br⁻

RN 220151-83-7 CAPLUS
CN Pyridinium, 2-[2-(4-chlorophenyl)ethenyl]-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 220151-84-8 CAPLUS
CN Pyridinium, 2-[2-(3,4-dichlorophenyl)ethenyl]-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 220151-85-9 CAPLUS
CN Pyridinium, 2-[2-(4-nitrophenyl)ethenyl]-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 17 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:43881 CAPLUS
DOCUMENT NUMBER: 130:139272
TITLE: The first approach to the synthesis of 1-unsubstituted

2-arylindolizines by intramolecular 1,5-dipolar cyclization of 2-(2-arylethenyl)pyridinium ylides in the presence of tetrakis(pyridine)cobalt(II) dichromate

AUTHOR(S): Zhou, Jian; Hu, Yue Fei; Hu, Hong Wen
CORPORATE SOURCE: Department Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China

SOURCE: Synthesis (1999), (1), 166-170
CODEN: SYNTBF; ISSN: 0039-7881

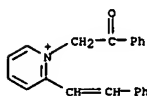
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal

LANGUAGE: English
OTHER SOURCE(S): CASREACT 130:139272

AB A synthesis of 1-unsubstituted 2-arylindolizines by intramolecular 1,5-dipolar cyclization of 2-(2-arylethenyl)pyridinium ylides in the presence of tetrakis(pyridine)cobalt(II) dichromate was developed. Several 1-unsubstituted 2-aryl-3-acetyl-, 3-benzoyl-, 3-ethoxycarbonyl- and 3-(4-nitrobenzoyl)indolizines were synthesized under the mild conditions in reasonable to moderate yields.

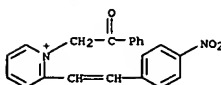
IT 220151-81-5P 220151-82-6P 220151-83-7P
220151-84-8P 220151-85-9P 220151-86-0P
220151-87-1P 220151-88-2P 220151-89-3P
220151-91-7P 220151-92-8P 220151-93-9P
220151-94-0P 220151-95-1P 220151-96-2P
220151-97-3P 220151-98-4P 220151-99-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of arylindolizines by intramolecular 1,5-dipolar cycloaddn. of (arylethenyl)pyridinium ylides)
RN 220151-81-5 CAPLUS
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(2-phenylethenyl)-, bromide (9CI) (CA INDEX NAME)



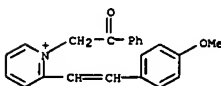
● Br⁻

RN 220151-82-6 CAPLUS
CN Pyridinium, 2-[2-(2-chlorophenyl)ethenyl]-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



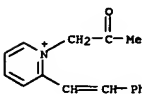
● Br⁻

RN 220151-86-0 CAPLUS
CN Pyridinium, 2-[2-(4-methoxyphenyl)ethenyl]-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



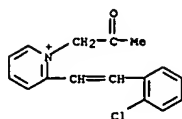
● Br⁻

RN 220151-87-1 CAPLUS
CN Pyridinium, 1-(2-oxopropyl)-2-(2-phenylethenyl)-, bromide (9CI) (CA INDEX NAME)

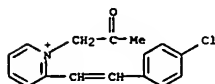


● Br⁻

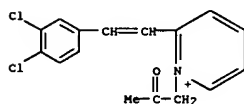
RN 220151-88-2 CAPLUS
CN Pyridinium, 2-[2-(2-chlorophenyl)ethenyl]-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

● Br⁻

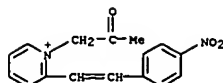
RN 220151-89-3 CAPLUS
CN Pyridinium, 2-[2-(4-chlorophenyl)ethenyl]-1-(2-oxopropyl)-, bromide (9CI)
(CA INDEX NAME)

● Br⁻

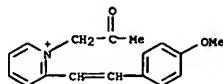
RN 220151-91-7 CAPLUS
CN Pyridinium, 2-[2-(3,4-dichlorophenyl)ethenyl]-1-(2-oxopropyl)-, bromide (9CI)
(CA INDEX NAME)

● Br⁻

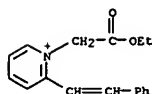
RN 220151-92-8 CAPLUS
CN Pyridinium, 2-[2-(4-nitrophenyl)ethenyl]-1-(2-oxopropyl)-, bromide (9CI)
(CA INDEX NAME)

● Br⁻

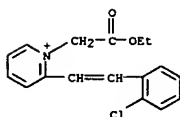
RN 220151-93-9 CAPLUS
CN Pyridinium, 2-[2-(4-methoxyphenyl)ethenyl]-1-(2-oxopropyl)-, bromide (9CI)
(CA INDEX NAME)

● Br⁻

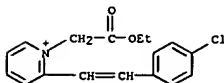
RN 220151-94-0 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-(2-phenylethenyl)-, bromide (9CI)
(CA INDEX NAME)

● Br⁻

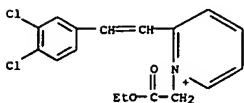
RN 220151-95-1 CAPLUS
CN Pyridinium, 2-[2-(2-chlorophenyl)ethenyl]-1-(2-ethoxy-2-oxoethyl)-, bromide (9CI) (CA INDEX NAME)

● Br⁻

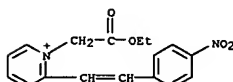
RN 220151-96-2 CAPLUS
CN Pyridinium, 2-[2-(4-chlorophenyl)ethenyl]-1-(2-ethoxy-2-oxoethyl)-, bromide (9CI) (CA INDEX NAME)

● Br⁻

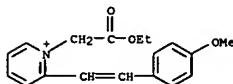
RN 220151-97-3 CAPLUS
CN Pyridinium, 2-[2-(3,4-dichlorophenyl)ethenyl]-1-(2-ethoxy-2-oxoethyl)-, bromide (9CI) (CA INDEX NAME)

● Br⁻

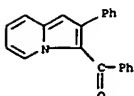
RN 220151-98-4 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-(2-(4-nitrophenyl)ethenyl)-, bromide (9CI) (CA INDEX NAME)

● Br⁻

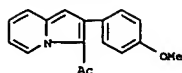
RN 220151-99-5 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-(2-(4-methoxyphenyl)ethenyl)-, bromide (9CI) (CA INDEX NAME)

● Br⁻

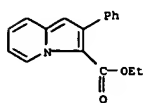
IT 14759-45-6P 26573-47-7P 36766-79-7P
38320-58-0P 58963-35-2P 169210-23-5P
220152-04-5P 220152-05-6P 220152-06-7P
220152-07-8P 220152-08-9P 220152-09-0P
220152-10-3P 220152-11-4P 220152-12-5P
220152-13-6P 220152-14-7P 220152-15-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of arylindolizines by intramol. 1,5-dipolar cycloaddn. of
(arylethenyl)pyridinium ylides)
RN 14759-45-6 CAPLUS
CN Methanone, phenyl(2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



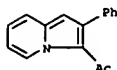
RN 26573-47-7 CAPLUS
CN Ethanone, 1-[2-(4-methoxyphenyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



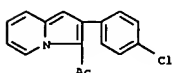
RN 36766-79-7 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



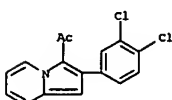
RN 38320-58-0 CAPLUS
CN Ethanone, 1-[2-phenyl-3-indolizynyl]- (9CI) (CA INDEX NAME)



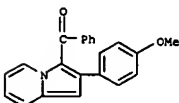
RN 58963-35-2 CAPLUS
CN Ethanone, 1-[2-(4-chlorophenyl)-3-indolizynyl]- (9CI) (CA INDEX NAME)



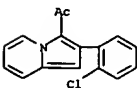
RN 169210-23-5 CAPLUS
CN Ethanone, 1-[2-(3,4-dichlorophenyl)-3-indolizynyl]- (9CI) (CA INDEX NAME)



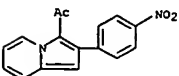
RN 220152-04-5 CAPLUS
CN Methanone, [2-(2-chlorophenyl)-3-indolizynyl]phenyl- (9CI) (CA INDEX NAME)



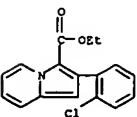
RN 220152-09-0 CAPLUS
CN Ethanone, 1-[2-(2-chlorophenyl)-3-indolizynyl]- (9CI) (CA INDEX NAME)



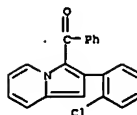
RN 220152-10-3 CAPLUS
CN Ethanone, 1-[2-(4-nitrophenyl)-3-indolizynyl]- (9CI) (CA INDEX NAME)



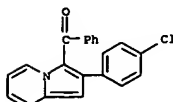
RN 220152-11-4 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-(2-chlorophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



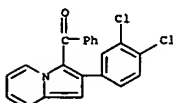
RN 220152-12-5 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-(4-chlorophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



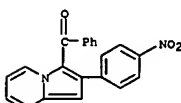
RN 220152-05-6 CAPLUS
CN Methanone, [2-(4-chlorophenyl)-3-indolizynyl]phenyl- (9CI) (CA INDEX NAME)



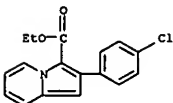
RN 220152-06-7 CAPLUS
CN Methanone, [2-(3,4-dichlorophenyl)-3-indolizynyl]phenyl- (9CI) (CA INDEX NAME)



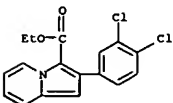
RN 220152-07-8 CAPLUS
CN Methanone, [2-(4-nitrophenyl)-3-indolizynyl]phenyl- (9CI) (CA INDEX NAME)



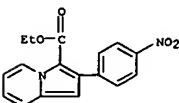
RN 220152-08-9 CAPLUS
CN Methanone, [2-(4-methoxyphenyl)-3-indolizynyl]phenyl- (9CI) (CA INDEX NAME)



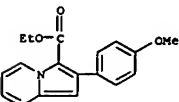
RN 220152-13-6 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-(3,4-dichlorophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 220152-14-7 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



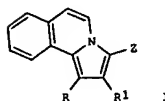
RN 220152-15-8 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



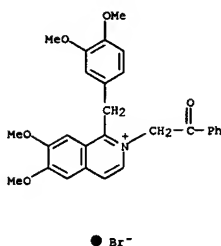
REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L15 ANSWER 18 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1997:491577 CAPLUS
 DOCUMENT NUMBER: 127:110293
 TITLE: Pyrrolo[2,1-a]isoquinoline dyes
 INVENTOR(S): Cuny, Gregory D.
 PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., USA
 SOURCE: Eur. Pat. Appl., 19 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

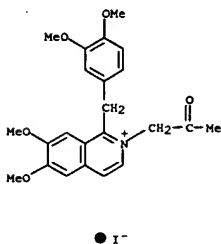
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|------------------------|------|-------------------|-----------------|------------|
| EP 780443 | A2 | 19970625 | EP 1996-119155 | 19961129 |
| EP 780443 | A3 | 19980923 | | |
| R: DE, FR, GB, IT | | | | |
| US 5723617 | A | 19980303 | US 1995-576502 | 19951221 |
| JP 09183913 | A2 | 19970715 | JP 1996-337044 | 19961217 |
| PRIORITY APPLN. INFO.: | | | US 1995-576502 | A 19951221 |
| OTHER SOURCE(S): | | MARPAT 127:110293 | | |
| GI | | | | |



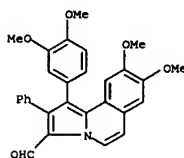
AB The dyes have the structure I, where R is (un)substituted Ph, R1 is alkyl, aryl, aralkyl, or alkaryl, and Z contains N+, a carbonyl group, or CN at the end of a pathway of conjugated double bonds; the isoquinoline ring may also be substituted with OMe groups. The dyes have greater thermal and chemical stability than their indolizine analogs and have narrow absorption bands in the range 500-900 nm. Those that absorb in the near-IR region (700-1400 nm) lack significant absorption in the 300-400 nm UV region of the spectrum. Thus, papaverine was quaternized with PhCOCH2Br, cyclized, and condensed with 4-Me2NC6H4CHO to give a dark purple dye with λ_{max} 640 nm.
 IT 192388-48-OP 192388-66-2P 192388-78-6P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of near-IR absorbing pyrroloisoquinoline dyes)
 RN 192388-48-0 CAPLUS
 CN Isoquinolinium, 1-[(3,4-dimethoxyphenyl)methyl]-6,7-dimethoxy-2-(2-oxopropyl)-, iodide (9CI) (CA INDEX NAME)



RN 192388-66-2 CAPLUS
 CN Isoquinolinium, 1-[(3,4-dimethoxyphenyl)methyl]-6,7-dimethoxy-2-(2-oxopropyl)-, iodide (9CI) (CA INDEX NAME)

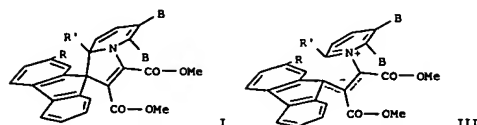


RN 192388-78-6 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxaldehyde, 1-[(3,4-dimethoxyphenyl)-8,9-dimethoxy-2-phenyl]- (9CI) (CA INDEX NAME)



L15 ANSWER 19 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1997:324536 CAPLUS
 DOCUMENT NUMBER: 127:17323

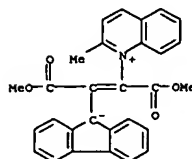
TITLE: New aspects of the photophysical properties of
 1'-H-2',3'-dimethoxycarbonylspiro[fluorene-9,1'-
 pyrrolo[2,1-a]quinoline]
 AUTHOR(S): Andreia, Christine; Durr, Heinz; Wintgens, Veronique;
 Valat, Pierre; Kossanyi, Jean
 CORPORATE SOURCE: Organische Chem., Univ. Saarlandes, Saarbrücken,
 D-66041, Germany
 SOURCE: Chemistry--A European Journal (1997), 3(4), 509-516
 CODEN: CEUJED; ISSN: 0947-6539
 PUBLISHER: VCH
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



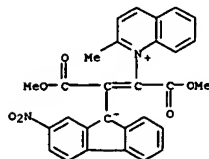
AB In this paper we describe photophys. and mechanistic studies of
 spiro[fluorene-9,1'-pyrrolo[2,1-a]quinolines] (DHI) I (e.g., R = R' = H,
 BB = benzene ring (1)) and of their styryl homologues II (with R' of I
 replaced by CH:CHR' where R' = (un)substituted Ph). DHIs I-II have low
 fluorescence quantum yields (approx. $\Phi_f = 10^{-3}$). The position of the
 fluorescence emission band is temperature-dependent. The ring-opened
 betaines
 III do not fluoresce at all. DHIs I-II exhibit phosphorescence, which is
 hypsochromically shifted by NO₂ substitution of the fluorene ring. The
 triplet can be populated only by sensitization (with benzophenone as
 sensitizer) and, therefore, the reaction that occurs under direct
 excitation of the mol. involves the singlet excited state only. On
 irradiation under time-resolved conditions, two transients were seen to
 be

formed in the picosecond and microsecond domains. Slightly tilted educt
 or product-like geometries are attributed to these transients. An energy
 diagram is proposed for the photoreaction of the model compound
 spiro[pyrroloquinoline] 1 + III (R = R' = H, BB = benzene ring),
 which takes into account the singlet pathway and the different transients
 of ca. 100 ps lifetimes formed from the singlet excited state of I-II.
 IT 190506-49-1 190506-53-7 190506-55-9
 190506-56-0 190506-57-1 190506-58-2
 190506-59-3 190506-60-6 190506-61-7
 RL: PMU (Formation, unclassified); PEP (Physical, engineering or chemical
 process); PRP (Properties); RCT (Reactant); FORM (Formation,
 nonpreparative); PROC (Process); RACT (Reactant or reagent)
 (photophys. properties of photochromic 1'-H-2',3'-
 dimethoxycarbonylspiro[fluorene-9,1'-pyrrolo[2,1-a]quinoline] derivs.)
 RN 190506-49-1 CAPLUS
 CN Quinolinium,
 1-[2-(9H-fluorene-9-yl)-3-methoxy-1-(methoxycarbonyl)-3-oxo-1-

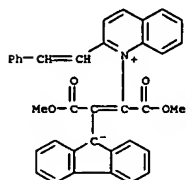
L15 ANSWER 19 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 propenyl]-2-methyl-, inner salt (9CI) (CA INDEX NAME)



RN 190506-53-7 CAPLUS
 CN Quinolinium,
 1-[3-methoxy-1-(methoxycarbonyl)-2-(2-nitro-9H-fluorene-9-yl)-
 3-oxo-1-propenyl]-2-methyl-, inner salt (9CI) (CA INDEX NAME)

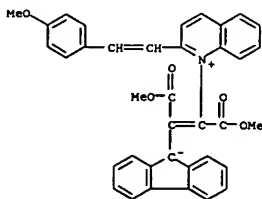


RN 190506-55-9 CAPLUS
 CN Quinolinium,
 1-[2-(9H-fluorene-9-yl)-3-methoxy-1-(methoxycarbonyl)-3-oxo-1-
 propenyl]-2-(2-phenylethenyl)-, inner salt (9CI) (CA INDEX NAME)

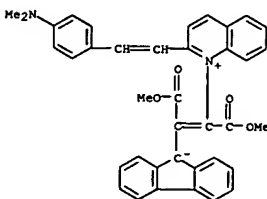


RN 190506-56-0 CAPLUS
 CN Quinolinium,
 1-[2-(9H-fluorene-9-yl)-3-methoxy-1-(methoxycarbonyl)-3-oxo-1-
 propenyl]-2-[2-(4-methoxyphenyl)ethenyl]-, inner salt (9CI) (CA INDEX

L15 ANSWER 19 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 NAME)

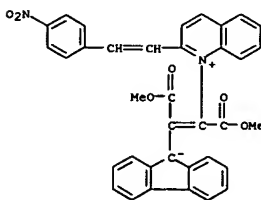


RN 190506-57-1 CAPLUS
 CN Quinolinium,
 2-[2-[4-(dimethylaminophenyl)ethenyl]-1-[2-(9H-fluorene-9-yl)-
 3-methoxy-1-(methoxycarbonyl)-3-oxo-1-propenyl]-, inner salt (9CI) (CA
 INDEX NAME)

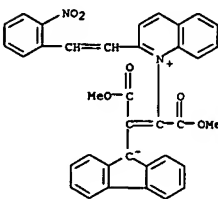


RN 190506-58-2 CAPLUS
 CN Quinolinium,
 1-[2-(9H-fluorene-9-yl)-3-methoxy-1-(methoxycarbonyl)-3-oxo-1-
 propenyl]-2-[2-(4-nitrophenyl)ethenyl]-, inner salt (9CI) (CA INDEX
 NAME)

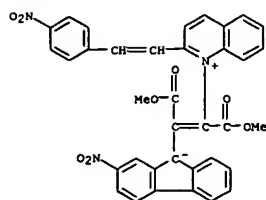
L15 ANSWER 19 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



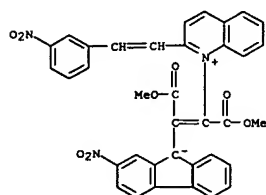
RN 190506-59-3 CAPLUS
 CN Quinolinium,
 1-[2-(9H-fluorene-9-yl)-3-methoxy-1-(methoxycarbonyl)-3-oxo-1-
 propenyl]-2-[2-(2-nitrophenyl)ethenyl]-, inner salt (9CI) (CA INDEX
 NAME)



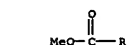
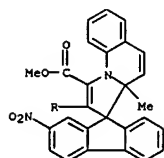
RN 190506-60-6 CAPLUS
 CN Quinolinium,
 1-[3-methoxy-1-(methoxycarbonyl)-2-(2-nitro-9H-fluorene-9-yl)-
 3-oxo-1-propenyl]-2-[2-(4-nitrophenyl)ethenyl]-, inner salt (9CI) (CA
 INDEX NAME)



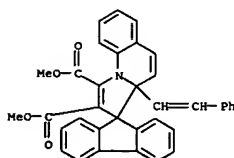
RN 190506-61-7 CAPLUS
CN Quinolinium,
1-[3-methoxy-1-(methoxycarbonyl)-2-(2-nitro-9H-fluoren-9-yl)-
3-oxo-1-propenyl]-2-[2-(3-nitrophenyl)ethenyl]-, inner salt (9CI) (CA
INDEX NAME)



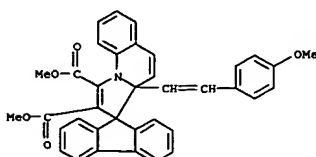
IT 72206-65-6 72206-66-7 190506-39-9
190506-40-2 190506-41-3 190506-42-4
190506-43-5 190506-44-6 190506-45-7
190506-46-8 190506-47-9
RL: PEP (Physical, engineering or chemical process); PRP (Properties);
RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(photophys. properties of photochromic 1'H-2',3'-
dimethoxycarbonylspiro[fluorene-9,1'-pyrrolo(2,1-a)quinoline] derivs.)
RN 72206-65-6 CAPLUS
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic
acid, dimethyl ester (9CI) (CA INDEX NAME)



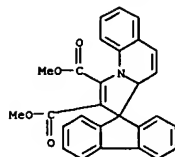
RN 190506-41-3 CAPLUS
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic
acid, 3'a-[2-(2-phenylethenyl)]-, dimethyl ester (9CI) (CA INDEX NAME)



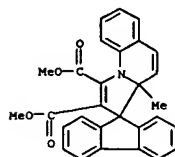
RN 190506-42-4 CAPLUS
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic
acid, 3'a-[2-(4-methoxyphenyl)ethenyl]-, dimethyl ester (9CI) (CA INDEX
NAME)



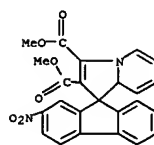
RN 190506-43-5 CAPLUS
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic
acid, 3'a-[2-[4-(dimethylamino)phenyl]ethenyl]-, dimethyl ester (9CI)
(CA



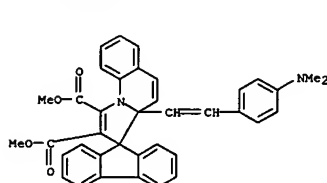
RN 72206-66-7 CAPLUS
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic
acid, 3'a-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



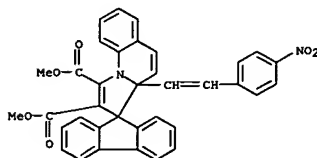
RN 190506-39-9 CAPLUS
CN Spiro[9H-fluorene-9,1'-(8'aH)-indolizine]-2',3'-dicarboxylic acid,
2-nitro-, dimethyl ester (9CI) (CA INDEX NAME)



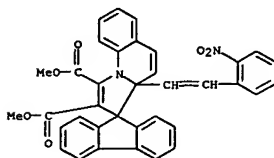
RN 190506-40-2 CAPLUS
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic
acid, 3'a-methyl-2-nitro-, dimethyl ester (9CI) (CA INDEX NAME)



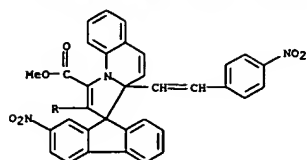
RN 190506-44-6 CAPLUS
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic
acid, 3'a-[2-(4-nitrophenyl)ethenyl]-, dimethyl ester (9CI) (CA INDEX
NAME)



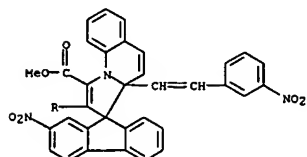
RN 190506-45-7 CAPLUS
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic
acid, 3'a-[2-(2-nitrophenyl)ethenyl]-, dimethyl ester (9CI) (CA INDEX
NAME)



RN 190506-46-8 CAPLUS
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic
acid, 2-nitro-3'a-[2-(4-nitrophenyl)ethenyl]-, dimethyl ester (9CI) (CA
INDEX NAME)



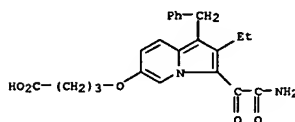
RN 190506-47-9 CAPLUS
 CN Spiro[9H-fluorene-9,3'-(3'AH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic acid, 2-nitro-3'-a-[2-(3-nitrophenyl)ethenyl]-, dimethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

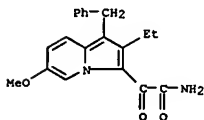
ACCESSION NUMBER: 1996:513751 CAPLUS
 DOCUMENT NUMBER: 125:247550
 TITLE: Potent Inhibitors of Secretory Phospholipase A2: Synthesis and Inhibitory Activities of Indolizine and Indene Derivatives
 AUTHOR(S): Hagishita, Sanji; Yamada, Masaaki; Shirahase, Kazuhiro; Okada, Toshihiko; Murakami, Yasushi; Ito, Yuji; Matsuura, Takaharu; Wada, Masaaki; Kato, Toshiyuki; et al.
 CORPORATE SOURCE: Shionogi Research Laboratories, Shionogi Co. Ltd., Osaka, 553, Japan
 SOURCE: Journal of Medicinal Chemistry (1996), 39(19), 3636-3658
 CODEN: JMCQAR; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Phospholipase A2 is an enzyme which hydrolyzes the sn-2 position of certain cellular phospholipids. The liberated lysophospholipid and arachidonic acid are precursors in the biosynthesis of various biol. active products. As human nonpancreatic secretory phospholipase A2 (sPLA2) is present in high levels in the blood of patients in several pathol. conditions, the potent sPLA2 inhibitors have been suggested to be useful drugs. Here the authors describe the synthesis, structure-activity relationship, and inhibitory activities of indolizine and indene derivs. 1-(Carbamoylmethyl)indolizine derivs. and 1-oxamylindolizine derivs. exhibited very potent inhibitory activity. The former was unstable to air oxidation, but the latter exhibited an improvement both in stability and in potency. Some compds. approached the stoichiometric limit of the chromogenic assay.
 IT 177556-76-2P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation and phospholipase A inhibitory activity of indolizine and indene derivs.)
 RN 177556-76-2 CAPLUS
 CN Butanoic acid, 4-[[3-(aminooxoacetyl)-2-ethyl-1-(phenylmethyl)-6-indolizinyloxy]- (9CI) (CA INDEX NAME)

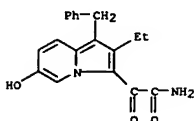


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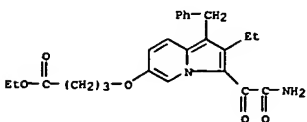
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 182116-39-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and phospholipase A inhibitory activity of indolizine and indene derivs.)
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 CN 3-Indolizineacetamide, 2-ethyl-6-methoxy-α-oxo-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



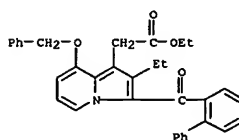
RN 177558-43-9 CAPLUS
 CN 3-Indolizineacetamide, 2-ethyl-6-hydroxy-α-oxo-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



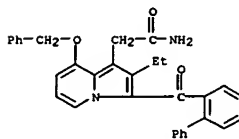
RN 177558-44-0 CAPLUS
 CN Butanoic acid, 4-[[3-(aminooxoacetyl)-2-ethyl-1-(phenylmethyl)-6-indolizinyloxy]-, ethyl ester (9CI) (CA INDEX NAME)



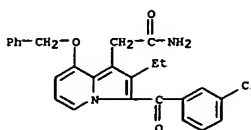
RN 177558-52-0 CAPLUS
 CN 1-Indolizineacetamide, 3-([1,1'-biphenyl]-2-ylcarbonyl)-2-ethyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



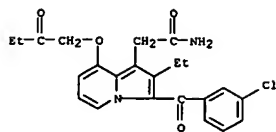
RN 177558-53-1 CAPLUS
 CN 1-Indolizineacetamide, 3-([1,1'-biphenyl]-2-ylcarbonyl)-2-ethyl-8-(phenylmethoxy)- (9CI) (CA INDEX NAME)



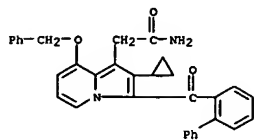
RN 177558-54-2 CAPLUS
 CN 1-Indolizineacetamide, 3-(3-chlorobenzoyl)-2-ethyl-8-(phenylmethoxy)- (9CI) (CA INDEX NAME)



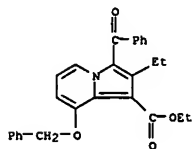
RN 177558-55-3 CAPLUS
 CN 1-Indolizineacetamide, 3-(3-chlorobenzoyl)-2-ethyl-8-(2-oxobutoxy)- (9CI) (CA INDEX NAME)



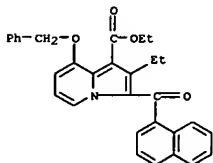
RN 177558-56-4 CAPLUS
CN 1-Indolizineacetamide, 3-([1,1'-biphenyl]-2-ylcarbonyl)-2-cyclopropyl-8-(phenylmethoxy)- (9CI) (CA INDEX NAME)



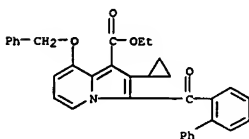
RN 177558-66-6 CAPLUS
CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-ethyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



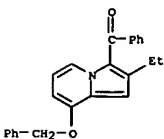
RN 177558-67-7 CAPLUS
CN 1-Indolizinecarboxylic acid, 3-([1,1'-biphenyl]-2-ylcarbonyl)-2-ethyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



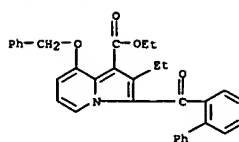
RN 177558-71-3 CAPLUS
CN 1-Indolizinecarboxylic acid, 3-([1,1'-biphenyl]-2-ylcarbonyl)-2-cyclopropyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



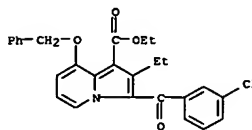
RN 177558-72-4 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyphenyl]- (9CI) (CA INDEX NAME)



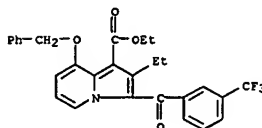
RN 177558-73-5 CAPLUS
CN Methanone, [1,1'-biphenyl]-2-yl[2-ethyl-8-(phenylmethoxy)-3-indolizinyphenyl]- (9CI) (CA INDEX NAME)



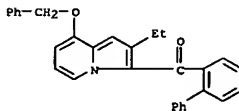
RN 177558-68-8 CAPLUS
CN 1-Indolizinecarboxylic acid, 3-(3-chlorobenzoyl)-2-ethyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



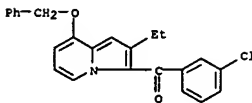
RN 177558-69-9 CAPLUS
CN 1-Indolizinecarboxylic acid, 2-ethyl-8-(phenylmethoxy)-3-[3-(trifluoromethyl)benzoyl]-, ethyl ester (9CI) (CA INDEX NAME)



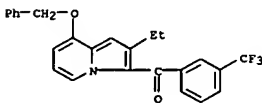
RN 177558-70-2 CAPLUS
CN 1-Indolizinecarboxylic acid, 2-ethyl-3-(1-naphthalenylcarbonyl)-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



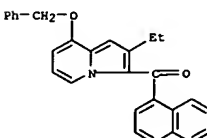
RN 177558-74-6 CAPLUS
CN Methanone, [3-chlorophenyl][2-ethyl-8-(phenylmethoxy)-3-indolizinyphenyl]- (9CI) (CA INDEX NAME)



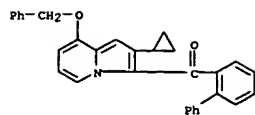
RN 177558-75-7 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyphenyl]-3-(trifluoromethyl)phenyl- (9CI) (CA INDEX NAME)



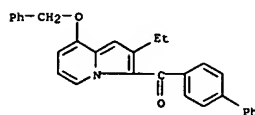
RN 177558-76-8 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyphenyl]-1-naphthalenyl- (9CI) (CA INDEX NAME)



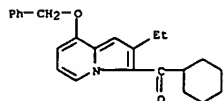
RN 177558-77-9 CAPLUS
CN Methanone, [1,1'-biphenyl]-2-yl[2-cyclopropyl-8-(phenylmethoxy)-3-indolizinyphenyl]- (9CI) (CA INDEX NAME)



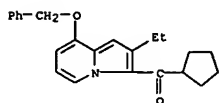
RN 177559-08-9 CAPLUS
CN Methanone, [1,1'-biphenyl]-4-yl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



RN 177559-09-0 CAPLUS
CN Methanone, cyclohexyl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)

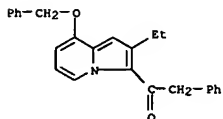


RN 177559-10-3 CAPLUS
CN Methanone, cyclopentyl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)

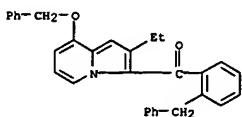


RN 177559-11-4 CAPLUS
CN Methanone, cycloheptyl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)

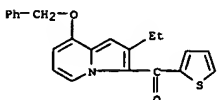
L15 ANSWER 20 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
INDEX NAME)



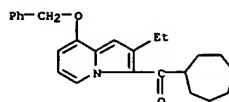
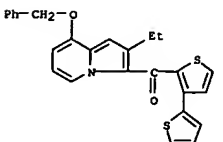
RN 177559-17-0 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy][2-(phenylmethyl)phenyl]- (9CI) (CA INDEX NAME)



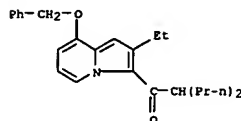
RN 177559-18-1 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]-2-thienyl- (9CI) (CA INDEX NAME)



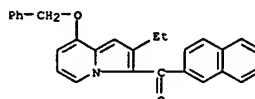
RN 177559-19-2 CAPLUS
CN Methanone, [2,3'-bithiophen]-2'-yl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



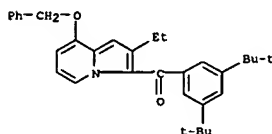
RN 177559-13-6 CAPLUS
CN 1-Pentanone, 1-[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]-2-propyl- (9CI) (CA INDEX NAME)



RN 177559-14-7 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]-2-naphthalenyl- (9CI) (CA INDEX NAME)



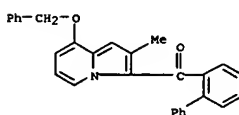
RN 177559-15-8 CAPLUS
CN Methanone, [3,5-bis(1,1-dimethylethyl)phenyl][2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



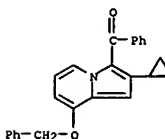
RN 177559-16-9 CAPLUS
CN Ethanone, 1-[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]-2-phenyl- (9CI) (CA INDEX NAME)

L15 ANSWER 20 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

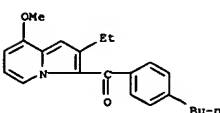
RN 177559-22-7 CAPLUS
CN Methanone, [1,1'-biphenyl]-2-yl[2-methyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



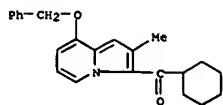
RN 177559-23-8 CAPLUS
CN Methanone, [2-cyclopropyl-8-(phenylmethoxy)-3-indolizinyloxy]phenyl- (9CI) (CA INDEX NAME)



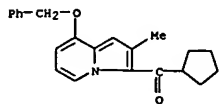
RN 177559-24-9 CAPLUS
CN Methanone, (4-butylphenyl)[2-ethyl-8-methoxy-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



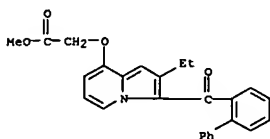
RN 177559-25-0 CAPLUS
CN Methanone, cyclohexyl[2-methyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



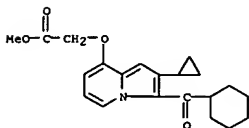
RN 177559-27-2 CAPLUS
CN Methanone, cyclopentyl[2-methyl-8-(phenylmethoxy)-3-indoliziny]- (9CI)
(CA INDEX NAME)



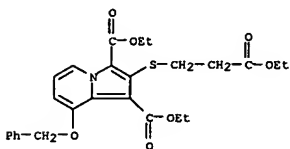
RN 177559-55-6 CAPLUS
CN Acetic acid, [[3-(1,1'-biphenyl)-2-ylcarbonyl]-2-ethyl-8-indolizinyloxy]-, methyl ester (9CI) (CA INDEX NAME)



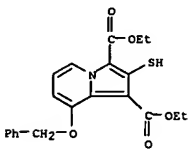
RN 177559-56-7 CAPLUS
CN Acetic acid, [[3-(cyclohexylcarbonyl)-2-cyclopropyl-8-indolizinyloxy]-, methyl ester (9CI) (CA INDEX NAME)



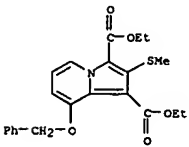
RN 177559-63-6 CAPLUS
CN Methanone, (2-ethyl-7-methoxy-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



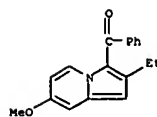
RN 177559-88-5 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 2-mercapto-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)



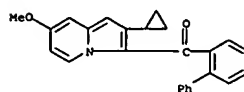
RN 177559-89-6 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 2-(methylthio)-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)



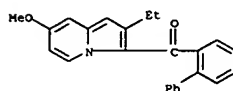
RN 182115-64-6 CAPLUS
CN Pyridinium, 2-methyl-1-(2-oxobutyl)-3-(phenylmethoxy)-, bromide (9CI)
(CA INDEX NAME)



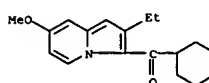
RN 177559-64-7 CAPLUS
CN Methanone, [1,1'-biphenyl]-2-yl(2-cyclopropyl-7-methoxy-3-indoliziny)- (9CI) (CA INDEX NAME)



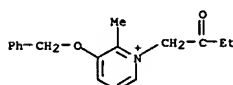
RN 177559-65-8 CAPLUS
CN Methanone, [1,1'-biphenyl]-2-yl(2-ethyl-7-methoxy-3-indoliziny)- (9CI)
(CA INDEX NAME)



RN 177559-66-9 CAPLUS
CN Methanone, cyclohexyl(2-ethyl-7-methoxy-3-indoliziny)- (9CI) (CA INDEX NAME)

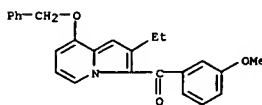


RN 177559-87-4 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 2-[(3-ethoxy-3-oxopropyl)thio]-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)

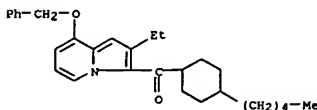


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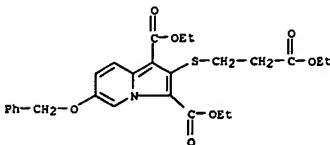
RN 182115-66-8 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indoliziny](3-methoxyphenyl)- (9CI) (CA INDEX NAME)



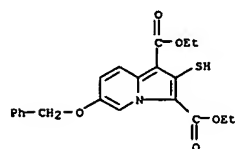
RN 182115-67-9 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indoliziny](4-pentylcyclohexyl)- (9CI) (CA INDEX NAME)



RN 182116-39-8 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 2-[(3-ethoxy-3-oxopropyl)thio]-6-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)



L15 ANSWER 20 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 IT 182116-40-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and phospholipase A inhibitory activity of indolizine and
 indene derivs.)
 RN 182116-40-1 CAPLUS
 CN 1,3-Indolizinedicarboxylic acid, 2-mercapto-6-(phenylmethoxy)-, diethyl
 ester (9CI) (CA INDEX NAME)

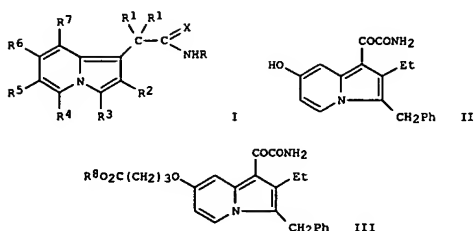


L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1996:353213 CAPLUS
 DOCUMENT NUMBER: 125:33475
 TITLE: preparation of indolizine derivatives as secretory
 phospholipase A2 (sPLA2)inhibitors
 INVENTOR(S): Dillard, Robert D.; Hagihita, Sanji; Ohtani,
 Mitsuki
 PATENT ASSIGNEE(S): Eli Lilly and Co., USA; Shionogi and Co., Ltd.
 SOURCE: PCT Int. Appl., 238 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

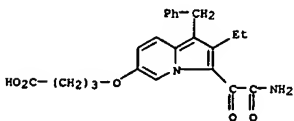
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| RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
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| EP 772596 | A1 | 19970514 | EP 1995-927422 | 19950720 |
| EP 772596 | B1 | 20031001 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE | | | | |
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| HU 77867 | A2 | 19980928 | HU 1997-179 | 19950720 |
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| AT 251158 | E | 20031015 | AT 1995-927422 | 19950720 |
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| US 6645976 | B1 | 20031111 | US 1997-765566 | 19970428 |
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| | | | WO 1995-US9381 | W 19950720 |

OTHER SOURCE(S): MARPAT 125:33475
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L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



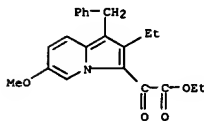
AB Indolizine derivs. [I: R = H, NH2; R1 = H, Cl-3 alkyl, halo, R1R1 = O, S; R2 = H, Cl-3 alkyl, halo, C3-4 cycloalkyl, etc.; R3 = C7-20 alkyl, alkenyl, alkynyl, carbocyclyl, etc.; R4, R5 = H, (un)substituted carbocyclyl, heterocyclyl, etc.; R6, R7 = H, an acid group residue linked through a Cl-10 divalent chain, etc.; X = O, S], useful in treating septic shock, adult respiratory distress, etc., are prepared and formulated.
 NaH (601) was added to a mixture of alc. II and Br(CH2)3CO2Et in DMF with stirring under cooling and N to give 56.2% ester III (R8 = Et), which was saponified in MeOH to give 49.9% acid III (R8 = H), which showed IC50 of 1.1 μM against sPLA2 in a chromogenic assay. Capsule, tablet, etc. formulations were given.
 IT 177556-76-2P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of indolizine derivs. as secretory phospholipase A2 (sPLA2)inhibitors)
 RN 177556-76-2 CAPLUS
 CN Butanoic acid, 4-[[3-(aminooxoacetyl)-2-ethyl-1-(phenylmethyl)-6-indolizinyloxy]- (9CI) (CA INDEX NAME)



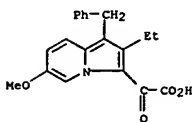
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 177558-53-1P 177558-54-2P 177558-55-3P
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L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

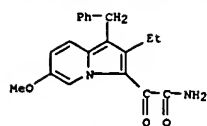
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 177558-30-5P 177558-31-6P 177558-32-7P
 177558-33-8P 177558-34-9P 177558-35-0P
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 177558-39-4P 177558-40-5P 177558-41-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. of indolizine derivs. as secretory phospholipase A2 (sPLA2)inhibitors)
 RN 177558-40-6 CAPLUS
 CN 3-Indolizineacetic acid, 2-ethyl-6-methoxy-α-oxo-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



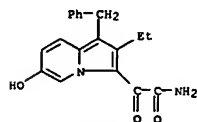
RN 177558-41-7 CAPLUS
 CN 3-Indolizineacetic acid, 2-ethyl-6-methoxy-α-oxo-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



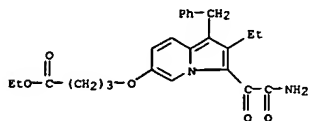
RN 177558-42-8 CAPLUS
 CN 3-Indolizineacetamide, 2-ethyl-6-methoxy-α-oxo-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



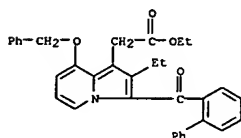
RN 177558-43-9 CAPLUS
CN 3-Indolizineacetamide, 2-ethyl-6-hydroxy-α-oxo-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



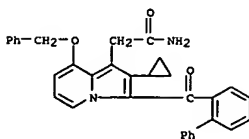
RN 177558-44-0 CAPLUS
CN Butanoic acid, 4-[[3-(aminooxoacetyl)-2-ethyl-1-(phenylmethyl)-6-indolizinyloxy]-, ethyl ester (9CI) (CA INDEX NAME)



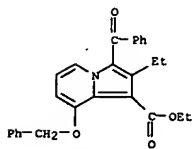
RN 177558-52-0 CAPLUS
CN 1-Indolizineacetic acid, 3-((1,1'-biphenyl)-2-ylcarbonyl)-2-ethyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



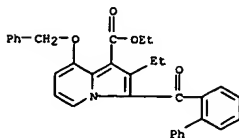
RN 177558-53-1 CAPLUS
CN 1-Indolizineacetamide, 3-((1,1'-biphenyl)-2-ylcarbonyl)-2-ethyl-8-



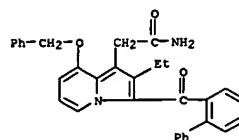
RN 177558-66-6 CAPLUS
CN 1-Indolizinecarboxylic acid, 2-ethyl-8-(phenylmethoxy)-3-benzoyl-, ethyl ester (9CI) (CA INDEX NAME)



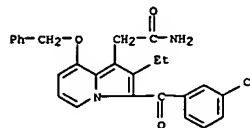
RN 177558-67-7 CAPLUS
CN 1-Indolizinecarboxylic acid, 3-((1,1'-biphenyl)-2-ylcarbonyl)-2-ethyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



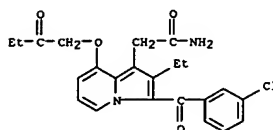
RN 177558-68-8 CAPLUS
CN 1-Indolizinecarboxylic acid, 3-(3-chlorobenzoyl)-2-ethyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



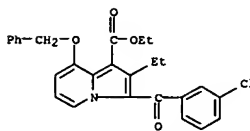
RN 177558-54-2 CAPLUS
CN 1-Indolizineacetamide, 3-(3-chlorobenzoyl)-2-ethyl-8-(phenylmethoxy)- (9CI) (CA INDEX NAME)



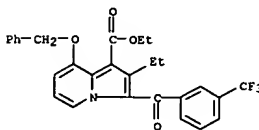
RN 177558-55-3 CAPLUS
CN 1-Indolizineacetamide, 3-(3-chlorobenzoyl)-2-ethyl-8-(2-oxobutoxy)- (9CI) (CA INDEX NAME)



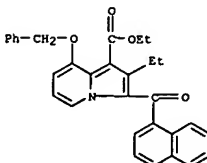
RN 177558-56-4 CAPLUS
CN 1-Indolizineacetamide, 3-((1,1'-biphenyl)-2-ylcarbonyl)-2-cyclopropyl-8-(phenylmethoxy)- (9CI) (CA INDEX NAME)



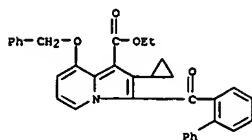
RN 177558-69-9 CAPLUS
CN 1-Indolizinecarboxylic acid, 2-ethyl-8-(phenylmethoxy)-3-[3-(trifluoromethyl)benzoyl]-, ethyl ester (9CI) (CA INDEX NAME)



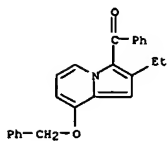
RN 177558-70-2 CAPLUS
CN 1-Indolizinecarboxylic acid, 2-ethyl-3-(1-naphthalenylcarbonyl)-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



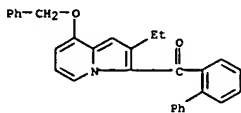
RN 177558-71-3 CAPLUS
CN 1-Indolizinecarboxylic acid, 3-((1,1'-biphenyl)-2-ylcarbonyl)-2-cyclopropyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



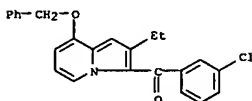
RN 177558-72-4 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]phenyl- (9CI) (CA INDEX NAME)



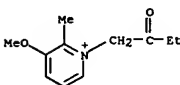
RN 177558-73-5 CAPLUS
CN Methanone, [1,1'-biphenyl]-2-yl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



RN 177558-74-6 CAPLUS
CN Methanone, [3-chlorophenyl][2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)

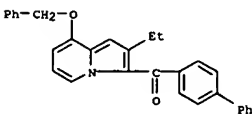


RN 177558-75-7 CAPLUS

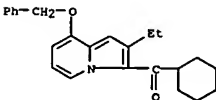


● Br⁻

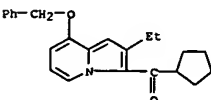
RN 177559-08-9 CAPLUS
CN Methanone, [1,1'-biphenyl]-4-yl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



RN 177559-09-0 CAPLUS
CN Methanone, cyclohexyl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)

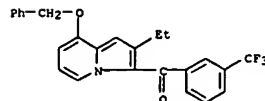


RN 177559-10-3 CAPLUS
CN Methanone, cyclopentyl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)

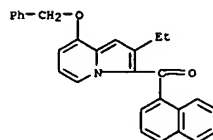


RN 177559-11-4 CAPLUS
CN Methanone, cycloheptyl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI)

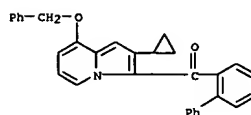
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy][3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



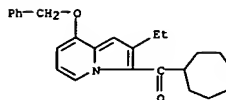
RN 177558-76-8 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]-1-naphthalenyl- (9CI) (CA INDEX NAME)



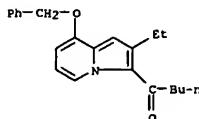
RN 177558-77-9 CAPLUS
CN Methanone, [1,1'-biphenyl]-2-yl[2-cyclopropyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



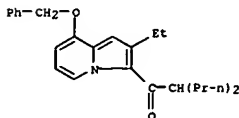
RN 177559-02-3 CAPLUS
CN Pyridinium, 3-methoxy-2-methyl-1-(2-oxobutyl)-, bromide (9CI) (CA INDEX NAME)



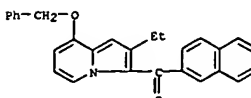
RN 177559-12-5 CAPLUS
CN 1-Pentanone, 1-[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



RN 177559-13-6 CAPLUS
CN 1-Pentanone, 1-[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]-2-propyl- (9CI) (CA INDEX NAME)

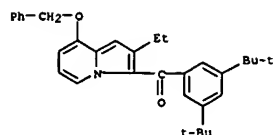


RN 177559-14-7 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]-2-naphthalenyl- (9CI) (CA INDEX NAME)

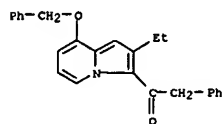


RN 177559-15-8 CAPLUS
CN Methanone, [3,5-bis(1,1-dimethylethyl)phenyl][2-ethyl-8-(phenylmethoxy)-3-

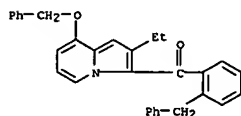
L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
indolizinyll- (9CI) (CA INDEX NAME)



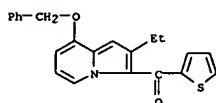
RN 177559-16-9 CAPLUS
CN Ethanone, 1-[2-ethyl-8-(phenylmethoxy)-3-indolizinyll]-2-phenyl- (9CI)
(CA INDEX NAME)



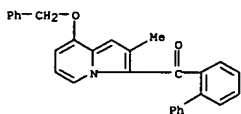
RN 177559-17-0 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyll](2-(phenylmethyl)phenyl)- (9CI) (CA INDEX NAME)



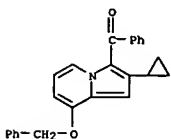
RN 177559-18-1 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyll]-2-thienyl- (9CI)
(CA INDEX NAME)



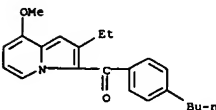
L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



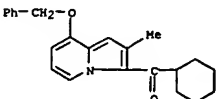
RN 177559-23-8 CAPLUS
CN Methanone, [2-cyclopropyl-8-(phenylmethoxy)-3-indolizinyll]phenyl- (9CI)
(CA INDEX NAME)



RN 177559-24-9 CAPLUS
CN Methanone, (4-butylphenyl)(2-ethyl-8-methoxy-3-indolizinyll)- (9CI) (CA INDEX NAME)

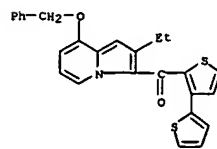


RN 177559-25-0 CAPLUS
CN Methanone, cyclohexyl[2-methyl-8-(phenylmethoxy)-3-indolizinyll]- (9CI)
(CA INDEX NAME)

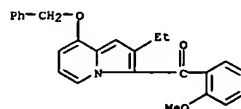


RN 177559-26-1 CAPLUS
CN Methanone, cyclohexyl[2-cyclopropyl-8-methoxy-3-indolizinyll]- (9CI) (CA INDEX NAME)

L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RN 177559-19-2 CAPLUS
CN Methanone, [2,3'-bithiophen]-2'-yl[2-ethyl-8-(phenylmethoxy)-3-indolizinyll]- (9CI) (CA INDEX NAME)

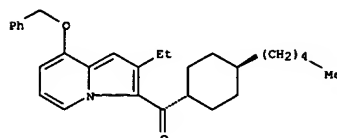


RN 177559-20-5 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyll](2-methoxyphenyl)- (9CI) (CA INDEX NAME)



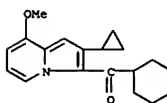
RN 177559-21-6 CAPLUS
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyll](4-pentylcyclohexyl)-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

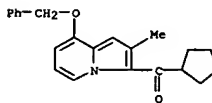


RN 177559-22-7 CAPLUS
CN Methanone, [1,1'-biphenyl]-2-yl[2-methyl-8-(phenylmethoxy)-3-indolizinyll]- (9CI) (CA INDEX NAME)

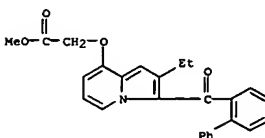
L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



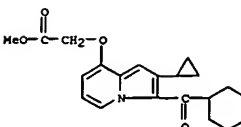
RN 177559-27-2 CAPLUS
CN Methanone, cyclopentyl[2-methyl-8-(phenylmethoxy)-3-indolizinyll]- (9CI)
(CA INDEX NAME)



RN 177559-55-6 CAPLUS
CN Acetic acid, [[3-(cyclohexylcarbonyl)-2-ethyl-8-indolizinyll]oxy]-, methyl ester (9CI) (CA INDEX NAME)

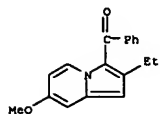


RN 177559-56-7 CAPLUS
CN Acetic acid, [[3-(cyclohexylcarbonyl)-2-cyclopropyl-8-indolizinyll]oxy]-, methyl ester (9CI) (CA INDEX NAME)

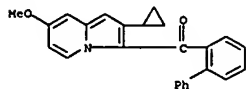


RN 177559-63-6 CAPLUS

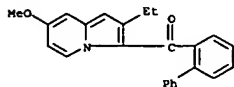
L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN Methanone, (2-ethyl-7-methoxy-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



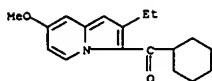
RN 177559-64-7 CAPLUS
 CN Methanone, [1,1'-biphenyl]-2-yl(2-cyclopropyl-7-methoxy-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 177559-65-8 CAPLUS
 CN Methanone, [1,1'-biphenyl]-2-yl(2-ethyl-7-methoxy-3-indoliziny)- (9CI) (CA INDEX NAME)

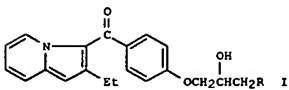


RN 177559-66-9 CAPLUS
 CN Methanone, cyclohexyl(2-ethyl-7-methoxy-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 177559-87-4 CAPLUS
 CN 1,3-Indolizinedicarboxylic acid, 2-[(3-ethoxy-3-oxopropyl)thio]-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)

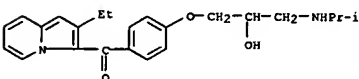
L15 ANSWER 22 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:451095 CAPLUS
 DOCUMENT NUMBER: 123:256467
 TITLE: Antiarrhythmic agents. II. Synthesis of 2-ethyl-3-[4-(2-hydroxy-3-alkylaminopropoxy)benzoyl]indolizines and their antiarrhythmic activity
 AUTHOR(S): Wang, Rubin; Peng, Sixun; Hua, Weiyl
 CORPORATE SOURCE: Dept. of Pharmaceutical Chemistry, Shandong Medical University, Jinan, Peop. Rep. China
 SOURCE: Shandong Yike Daxue Xuebao (1994), 32(4), 338-42
 CODEN: SYXBEE; ISSN: 1000-0496
 PUBLISHER: Shandong Yike Daxue
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese
 GI



AB Title compds. I (R = alkylamino, dialkylamino, benzyl, substituted phenethylamino) prepared by amination of 2-ethyl-3-[4-(epoxypropyloxy)benzoyl]indolizines with RN. I (R = tert-Bu, 3,4-dimethoxyphenethyl) markedly antagonize CHCl₃-induced arrhythmia in rats.

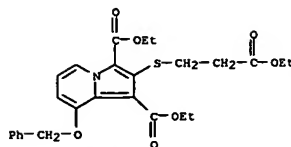
IT 152429-39-5P 152429-40-8P 152429-41-9P
 152429-42-0P 152429-43-1P 152429-44-2P
 152429-45-3P 152429-46-4P 152429-47-5P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (synthesis of ethyl(aminopropoxy)benzoyl]indolizines and their antiarrhythmic activity)

RN 152429-39-5 CAPLUS
 CN Methanone, (2-ethyl-3-indoliziny)[4-[2-hydroxy-3-[(1-methylethyl)amino]propoxy]phenyl]- (9CI) (CA INDEX NAME)

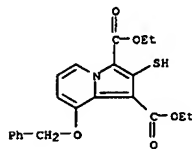


RN 152429-40-8 CAPLUS
 CN Methanone, [4-[3-[(1,1-dimethylethyl)amino]-2-hydroxypropoxy]phenyl](2-ethyl-3-indoliziny)- (9CI) (CA INDEX NAME)

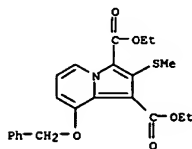
L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



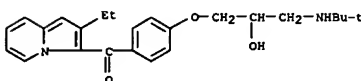
RN 177559-88-5 CAPLUS
 CN 1,3-Indolizinedicarboxylic acid, 2-mercapto-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)



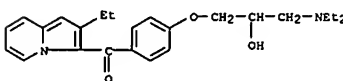
RN 177559-89-6 CAPLUS
 CN 1,3-Indolizinedicarboxylic acid, 2-(methylthio)-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)



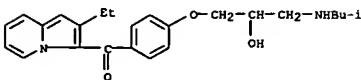
L15 ANSWER 22 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



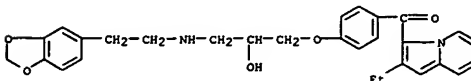
RN 152429-41-9 CAPLUS
 CN Methanone, [4-[3-(diethylamino)-2-hydroxypropoxy]phenyl](2-ethyl-3-indoliziny)- (9CI) (CA INDEX NAME)



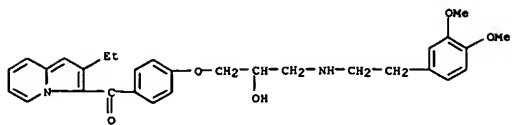
RN 152429-42-0 CAPLUS
 CN Methanone, (2-ethyl-3-indoliziny)[4-[2-hydroxy-3-[(2-methylpropyl)amino]propoxy]phenyl]- (9CI) (CA INDEX NAME)



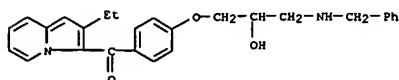
RN 152429-43-1 CAPLUS
 CN Methanone, [4-[3-[[2-(1,3-benzodioxol-5-yl)ethyl]amino]-2-hydroxypropoxy]phenyl](2-ethyl-3-indoliziny)- (9CI) (CA INDEX NAME)



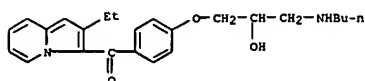
RN 152429-44-2 CAPLUS
 CN Methanone, [4-[3-[[2-(3,4-dimethoxyphenyl)ethyl]amino]-2-hydroxypropoxy]phenyl](2-ethyl-3-indoliziny)- (9CI) (CA INDEX NAME)



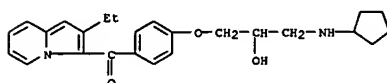
RN 152429-45-3 CAPLUS
CN Methanone, (2-ethyl-3-indolizinyloxy)[4-(2-hydroxy-3-((phenylmethyl)amino)propoxy)phenyl]- (9CI) (CA INDEX NAME)



RN 152429-46-4 CAPLUS
CN Methanone, [4-(3-(butylamino)-2-hydroxypropoxy)phenyl] (2-ethyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)

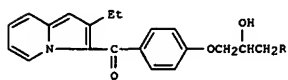


RN 152429-47-5 CAPLUS
CN Methanone, [4-(3-(cyclopentylamino)-2-hydroxypropoxy)phenyl] (2-ethyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)



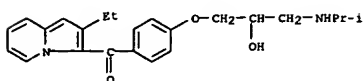
IT 58963-28-3P 64466-53-1P 64467-11-4P
152429-48-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of ethyl(aminopropoxybenzoyl)indolizines and their antiarrhythmic activity)
RN 58963-28-3 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)

L15 ANSWER 23 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:302228 CAPLUS
DOCUMENT NUMBER: 122:105585
TITLE: Studies on antiarrhythmic agents. I. Synthesis of 2-ethyl-3-(4-(2-hydroxy-3-alkylaminopropoxy)benzoyl)indolizines and their antiarrhythmic activity
AUTHOR(S): Wang, Rubin; Peng, Sixun; Hua, Wei
CORPORATE SOURCE: Pharmaceutical Department, Shandong Medical Univ., Jian, 250012, Peop. Rep. China
SOURCE: Zhongguo Yaowu Huaxue Zazhi (1994), 4(3), 158-61, 170
CODEN: ZYHZE; ISSN: 1005-0108
PUBLISHER: Zhongguo Yaowu Huaxue Zazhi Bianjibu
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
GI

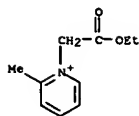


AB Title compds. I (R = Me2CHNH, Me3CNH, Et2N, Me2CHCH2NH, 3,4-methylenedioxyphenylethylamino, 3,4-dimethoxyphenylethylamino, PhCH2NH, BuNH, cyclopentyl) were prepared in 7 steps starting from 2-methylpyridine. I (R = Me3CNH) antagonized 80% of CHCl3-induced arrhythmia in mice.

IT 152429-39-5P 152429-40-8P 152429-41-9P
152429-42-0P 152429-43-1P 152429-44-2P
152429-45-3P 152429-46-4P 152429-47-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis of (aminopropoxybenzoyl)indolizines and their antiarrhythmic activity)
RN 152429-39-5 CAPLUS
CN Methanone, (2-ethyl-3-indolizinyloxy)[4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl]- (9CI) (CA INDEX NAME)

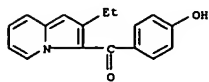


RN 152429-40-8 CAPLUS
CN Methanone, [4-(3-((1,1-dimethylethyl)amino)-2-hydroxypropoxy)phenyl] (2-ethyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)

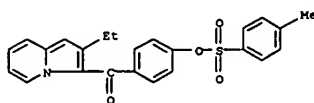


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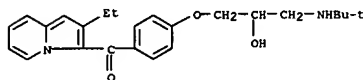
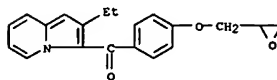
RN 64466-53-1 CAPLUS
CN Methanone, (2-ethyl-3-indolizinyloxy)[4-(2-hydroxy-3-((phenylmethyl)amino)propoxy)phenyl]- (9CI) (CA INDEX NAME)



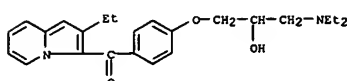
RN 64467-11-4 CAPLUS
CN Methanone, (2-ethyl-3-indolizinyloxy)[4-((4-methylphenyl)sulfonyloxy)phenyl]- (9CI) (CA INDEX NAME)



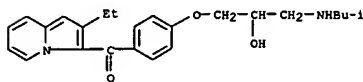
RN 152429-48-6 CAPLUS
CN Methanone, (2-ethyl-3-indolizinyloxy)[4-(oxiranylmethoxy)phenyl]- (9CI) (CA INDEX NAME)



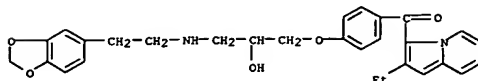
RN 152429-41-9 CAPLUS
CN Methanone, [4-(3-(diethylamino)-2-hydroxypropoxy)phenyl] (2-ethyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)



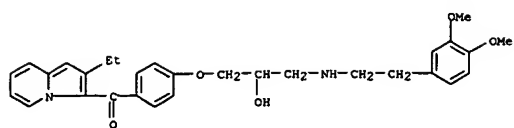
RN 152429-42-0 CAPLUS
CN Methanone, (2-ethyl-3-indolizinyloxy)[4-(2-hydroxy-3-((2-methylpropyl)amino)propoxy)phenyl]- (9CI) (CA INDEX NAME)



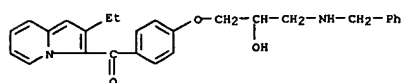
RN 152429-43-1 CAPLUS
CN Methanone, [4-(3-((1,3-benzodioxol-5-yl)ethyl)amino)-2-hydroxypropoxy)phenyl] (2-ethyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)



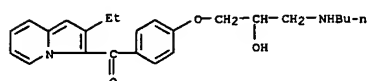
RN 152429-44-2 CAPLUS
CN Methanone, [4-(3-((2-(3,4-dimethoxyphenyl)ethyl)amino)-2-hydroxypropoxy)phenyl] (2-ethyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)



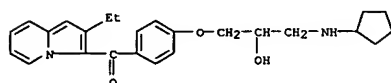
RN 152429-45-3 CAPLUS
CN Methanone, (2-ethyl-3-indoliziny)[4-{2-hydroxy-3-[(phenylmethyl)amino]propoxy}phenyl]- (9CI) (CA INDEX NAME)



RN 152429-46-4 CAPLUS
CN Methanone, [4-{3-(butylamino)-2-hydroxypropoxy}phenyl](2-ethyl-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 152429-47-5 CAPLUS
CN Methanone, [4-{3-(cyclopentylamino)-2-hydroxypropoxy}phenyl](2-ethyl-3-indoliziny)- (9CI) (CA INDEX NAME)

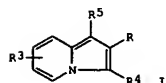


IT 58963-28-3P 64466-53-1P 64467-11-4P
152429-48-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of (aminopropyl)oxycarbonylindolizines and their antiarrhythmic activity)
RN 58963-28-3 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)

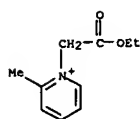
L15 ANSWER 24 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1994:270423 CAPLUS
DOCUMENT NUMBER: 120:270423
TITLE: Preparation of 1-(4-hydroxyphenylsulfonyl)indolizines as pharmaceutical intermediates
INVENTOR(S): Gubin, Jean; Renard, Michel
PATENT ASSIGNEE(S): Elf Sanofi SA, Fr.
SOURCE: Eur. Pat. Appl., 18 pp.
CODEN: EPXDXW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--------------------------------------------------------------------|------|----------|-----------------|-------------|
| EP 576349 | A1 | 19931229 | EP 1993-401602 | 19930622 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, | | | | |
| FR 2692578 | A1 | 19931224 | FR 1992-7663 | 19920623 |
| FR 2692578 | B1 | 19950630 | | |
| CA 2098992 | AA | 19931224 | CA 1993-2098992 | 19930622 |
| HU 64542 | A2 | 19940128 | HU 1993-1841 | 19930622 |
| JP 07010873 | A | 19950113 | JP 1993-150700 | 19930622 |
| US 5403933 | A | 19950404 | US 1993-80173 | 19930623 |
| US 5739340 | A | 19980414 | US 1997-825773 | 19970402 |
| PRIORITY APPLN. INFO.: | | | | |
| | | | FR 1992-7663 | A 19920623 |
| | | | US 1993-80173 | A3 19930623 |
| | | | US 1995-384837 | B1 19950207 |

OTHER SOURCE(S): MARPAT 120:270423
GI

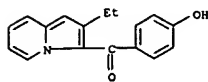


AB Title compds. [I; R = (cyclo)alkyl, Ph; R3 = H, alkyl; R4 = carboxy group precursor; R5 = (substituted) 4-(R6O)C6H4X; R6 = H; X = S or SO2] were prepared as intermediates for pharmaceuticals I (R6 = aminoalkyl). Thus, 2-picoline was N-alkylated by BrCH2CO2Me and the product cyclocondensed with (Me2CHCO)2O to give, after thiolation by 4-(HO)C6H4SH and oxidation, I
(R = CHMe2, R3 = H, R5 = 4-(R6O)C6H4SO2) (II; R4 = CO2Me, R6 = H) which was decarboxylated and the product condensed with
Cl(CH2)3NMeCH2CH2C6H3(OMe)2-3,4 to give II [R4 = H, R6 = (CH2)3NMeCH2CH2C6H3(OMe)2-3,4].
IT 130745-92-5P 154190-14-4P 154190-16-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of pharmaceutical intermediate)
RN 130745-92-5 CAPLUS

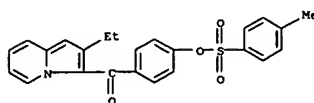


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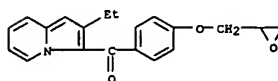
RN 64466-53-1 CAPLUS
CN Methanone, (2-ethyl-3-indoliziny)[4-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



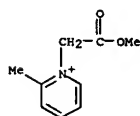
RN 64467-11-4 CAPLUS
CN Methanone, (2-ethyl-3-indoliziny)[4-[(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



RN 152429-48-6 CAPLUS
CN Methanone, (2-ethyl-3-indoliziny)[4-(oxiranylmethoxy)phenyl]- (9CI) (CA INDEX NAME)

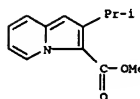


L15 ANSWER 24 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN Pyridinium, 1-(2-methoxy-2-oxoethyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)

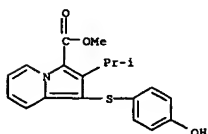


● Br⁻

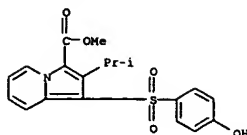
RN 154190-14-4 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-(1-methylethyl)-; methyl ester (9CI) (CA INDEX NAME)



RN 154190-16-6 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-[(4-hydroxyphenyl)thio]-2-(1-methylethyl)-; methyl ester (9CI) (CA INDEX NAME)



IT 154190-17-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as pharmaceutical intermediate)
RN 154190-17-7 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-[(4-hydroxyphenyl)sulfonyl]-2-(1-methylethyl)-; methyl ester (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1994:270005 CAPLUS
DOCUMENT NUMBER: 120:270005

TITLE: A facile one-step synthesis of aromatic indolizines by

1,3-dipolar cycloaddition of pyridinium and related heteroaromatic ylides with alkenes in the presence of TPCD [Copy4(HCrO4)2]

AUTHOR(S): Wei, Xudong; Hu, Yuefei; Li, Tingsheng; Hu, Hongwen
CORPORATE SOURCE: Dep. Chem., Nanjing Univ., Nanjing, 210008, Peop. Rep.

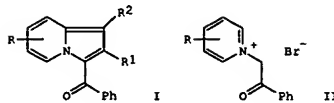
China
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1993), (20), 2487-9

CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal
LANGUAGE: English

OTHER SOURCE(S): CASREACT 120:270005

GI



AB A facile and general one-step method is presented for the preparation of aromatic

indolizine compds. I (R-R2 = alkyl, etc.) in moderate to high yields (53-99%) by reaction of the pyridinium N-ylides II (R = alkyl), quinolinium ylide or isoquinolinium ylide with various olefinic dipolarophiles, such as acrylonitrile, Me acrylate, acrylamide, di-Et maleate and Me crotonate, resp., in the presence of a new oxidant TPCD [Copy4(HCrO4)2, tetrapyridinecobalt(II) dichromate] at 90 °C for 2 h in DMF.

IT 17281-79-7P, Methyl 3-benzoylindolizine-1-carboxylate
25627-81-0P, 3-Benzoyl-1-cyanoindolizine 25627-83-2P

25627-85-4P 25627-86-5P 154224-58-5P

154224-59-6P 154224-60-9P 154224-61-0P

154224-62-1P 154224-63-2P 154224-64-3P

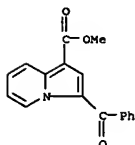
154224-65-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation from pyridinium ylide and alkene)

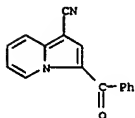
RN 17281-79-7 CAPLUS

CN 1-Indolizinecarboxylic acid, 3-benzoyl-, methyl ester (8CI, 9CI) (CA INDEX NAME)



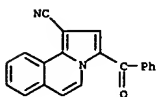
RN 25627-81-0 CAPLUS

CN 1-Indolizinecarboxitrile, 3-benzoyl- (8CI, 9CI) (CA INDEX NAME)



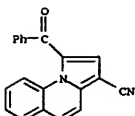
RN 25627-83-2 CAPLUS

CN Pyrrole[2,1-a]isoquinoline-1-carbonitrile, 3-benzoyl- (8CI, 9CI) (CA INDEX NAME)



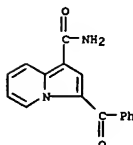
RN 25627-85-4 CAPLUS

CN Pyrrole[1,2-a]quinoline-3-carbonitrile, 1-benzoyl- (8CI, 9CI) (CA INDEX NAME)



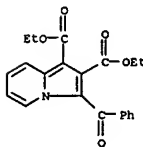
RN 25627-86-5 CAPLUS

CN 1-Indolizinecarboxamide, 3-benzoyl- (8CI, 9CI) (CA INDEX NAME)



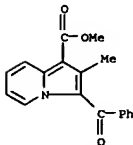
RN 154224-58-5 CAPLUS

CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-, diethyl ester (9CI) (CA INDEX NAME)



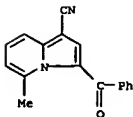
RN 154224-59-6 CAPLUS

CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-methyl-, methyl ester (9CI) (CA INDEX NAME)



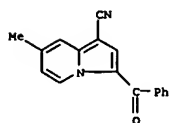
RN 154224-60-9 CAPLUS

CN 1-Indolizinecarboxitrile, 3-benzoyl-5-methyl- (9CI) (CA INDEX NAME)

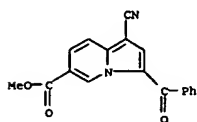


L15 ANSWER 25 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

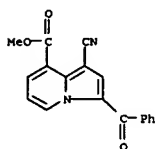
RN 154224-61-0 CAPLUS
CN 1-Indolizinecarboxitrile, 3-benzoyl-7-methyl- (9CI) (CA INDEX NAME)



RN 154224-62-1 CAPLUS
CN 6-Indolizinecarboxylic acid, 3-benzoyl-1-cyano-, methyl ester (9CI) (CA INDEX NAME)

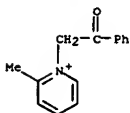


RN 154224-63-2 CAPLUS
CN 8-Indolizinecarboxylic acid, 3-benzoyl-1-cyano-, methyl ester (9CI) (CA INDEX NAME)



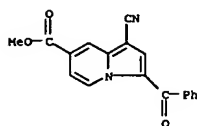
RN 154224-64-3 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-benzoyl-1-cyano-, methyl ester (9CI) (CA INDEX NAME)

L15 ANSWER 25 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

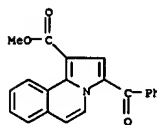


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L15 ANSWER 25 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

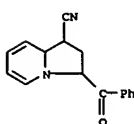


RN 154224-65-4 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-benzoyl-, methyl ester (9CI) (CA INDEX NAME)



IT 32896-92-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant for (benzoyl)indolizine)

RN 32896-92-7 CAPLUS
CN 1-Indolizinecarboxitrile, 3-benzoyl-1,2,3,8a-tetrahydro- (8CI, 9CI) (CA INDEX NAME)



IT 32896-98-3, Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant, dipolar cycloaddn. of pyridinium ylide alkenes)

RN 32896-98-3 CAPLUS
CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 26 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:191670 CAPLUS
DOCUMENT NUMBER: 120:191670
TITLE: A new approach for the synthesis of fused pyrroles.
The synthesis of acyl substituted

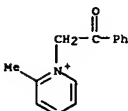
pyrrolo[1,2-x]azines
AUTHOR(S): Copar, Anton; Stanovnik, Branko; Tisler, Miha
CORPORATE SOURCE: Dep. Chem., Univ. Ljubljana, Ljubljana, 61000,
Slovenia
SOURCE: Journal of Heterocyclic Chemistry (1993), 30(6),
1577-9
CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 120:191670
AB N-Acetyl- and N-phenacyl quaternary salts of α-Me substituted
heterocycles were converted with DMFDMA into the corresponding
3-acylpyrrolo[1,2-a]pyridine, 7-benzoylpyrrolo-[1,2-c]pyrimidine, and
6-benzoylpyrrolo[1,2-a]pyrazine derivs. A concurrent reaction produced

Me and Ph substituted pyrrolo[1,2-x]azines.

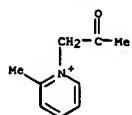
IT 32896-98-3 153854-94-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of, with DMFDMA)

RN 32896-98-3 CAPLUS
CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

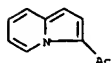


• Br⁻

RN 153854-94-5 CAPLUS
CN Pyridinium, 2-methyl-1-(2-oxopropyl)-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

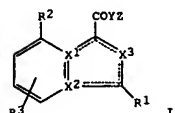
IT 25314-91-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 25314-91-4 CAPLUS
 CN Ethanone, 1-(3-indolizynyl)- (9CI) (CA INDEX NAME)



L15 ANSWER 27 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1993:560281 CAPLUS
 DOCUMENT NUMBER: 119:160281
 TITLE: Imidazopyridines and indolizines as 5-HT₄ receptor antagonists
 INVENTOR(S): King, Francis David; Gaster, Laramie Mary; Joiner, Graham Francis
 PATENT ASSIGNEE(S): SmithKline Beecham PLC, UK
 SOURCE: PCT Int. Appl., 31 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

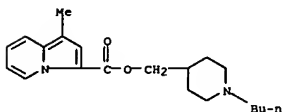
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------------------------------------------------|------|----------|-----------------|------------|
| WO 9308187 | A1 | 19930429 | WO 1992-GB1886 | 19921015 |
| W: AU, CA, JP, KR, US | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE | | | | |
| AU 9227526 | A1 | 19930521 | AU 1992-27526 | 19921015 |
| EP 609278 | A1 | 19940810 | EP 1992-921182 | 19921015 |
| R: BE, CH, DE, FR, GB, IT, LI, NL | | | | |
| JP 07500588 | T2 | 19950119 | JP 1992-507530 | 19921015 |
| ZA 9208163 | A | 19930802 | ZA 1992-8163 | 19921022 |
| PRIORITY APPLN. INFO.: | | | GB 1991-22623 | A 19911024 |
| | | | GB 1992-5427 | A 19920312 |
| | | | WO 1992-GB1886 | A 19921015 |

OTHER SOURCE(S): MARPAT 119:160281
 GI



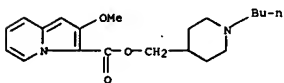
AB The title compds. I [R₁ = H, halogen, CF₃, C1-6 alkoxy, C1-6 alkyl, C1-6 alkylthio, C1-6 alkylsulfonyl, C1-6 alkylsulfanyl, C1-7 acyl, CN, C1-6 alkoxy, etc.; R₂ = H, halogen, C1-6 alkyl, C1-6 alkoxy, NO₂, NH₂, C1-6 alkyl (sic), CN; R₃ = H, halogen, C1-6 alkyl, C1-6 alkoxy; one of X₁ and X₂ is N while the other is C; Y = O, NH; Z = (heterocyclyl)alkyl], useful as 5-HT₄ receptor antagonists for the treatment of irritable bowel syndrome (no data), stroke (no data), and atrial arrhythmias (no data),
 are prepared. Thus, 1-(1-butyl-4-piperidyl)methyl-3-ethylindolizine-1-carboxylate was prepared from 2-ethylindolizinecarboxylic acid and 1-butyl-4-hydroxymethylpiperidine.
 IT 149721-85-7P 149721-86-8P 149721-90-4P
 149721-91-5P 150115-00-7P 150145-81-6P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological)

L15 ANSWER 27 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (prepn. and hydroxytryptamine receptor antagonist activity of)
 RN 149721-85-7 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-methyl-, (1-butyl-4-piperidyl)methyl ester, monohydrochloride (9CI) (CA INDEX NAME)



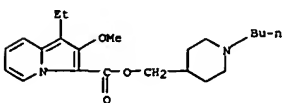
● HCl

RN 149721-86-8 CAPLUS
 CN 3-Indolizinecarboxylic acid, 2-methoxy-, (1-butyl-4-piperidyl)methyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

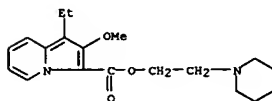
RN 149721-90-4 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-ethyl-2-methoxy-, (1-butyl-4-piperidyl)methyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 149721-91-5 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-ethyl-2-methoxy-, 2-(1-piperidyl)ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

L15 ANSWER 27 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

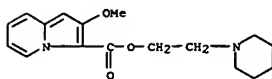


● HCl

RN 150115-00-7 CAPLUS
 CN 3-Indolizinecarboxylic acid, 2-methoxy-, 2-(1-piperidyl)ethyl ester, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 149741-23-1
 CMF C17 H22 N2 O3



CM 2

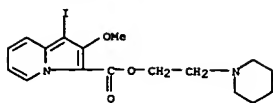
CRN 144-62-7
 CMF C2 H2 O4



RN 150145-81-6 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-iodo-2-methoxy-, 2-(1-piperidyl)ethyl ester, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

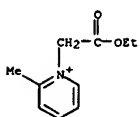
CRN 150145-80-5
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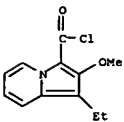
CH 2

CRN 144-62-7
CMF C2 H2 O4

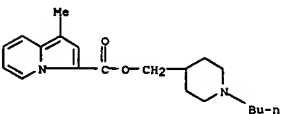
IT 55814-02-3P 84919-62-0P 109847-25-8P,
3-Acetyl-1-methylindolizine 115813-14-4P, 1-Methylindolizine-3-
carbonyl chloride 115813-15-5P, 2-Methoxyindolizine-3-carbonyl
chloride 149741-27-5P 149741-30-0P
149741-31-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and reaction of, in manufacture of hydroxytryptamine
receptor
antagonists)
RN 55814-02-3 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, bromide (9CI) (CA INDEX
NAME)

● Br⁻

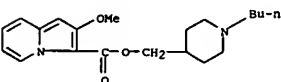
RN 84919-62-0 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-propyl-, bromide (9CI) (CA INDEX
NAME)



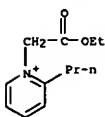
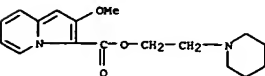
RN 149741-30-0 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-methyl-, (1-butyl-4-piperidinyl)methyl
ester (9CI) (CA INDEX NAME)



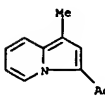
RN 149741-31-1 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-methoxy-, (1-butyl-4-piperidinyl)methyl
ester (9CI) (CA INDEX NAME)



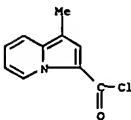
IT 149741-23-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of hydroxytryptamine receptor
antagonists)
RN 149741-23-1 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-methoxy-, 2-(1-piperidinyl)ethyl ester
(9CI) (CA INDEX NAME)

● Br⁻

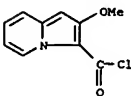
RN 109847-25-8 CAPLUS
CN Ethanone, 1-(1-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 115813-14-4 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-methyl-, (9CI) (CA INDEX NAME)



RN 115813-15-5 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-methoxy-, (9CI) (CA INDEX NAME)

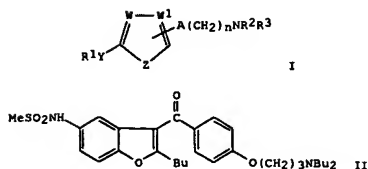


RN 149741-27-5 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-ethyl-2-methoxy-, (9CI) (CA INDEX NAME)

L15 ANSWER 28 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1992:426336 CAPLUS
DOCUMENT NUMBER: 117:26336
TITLE: Preparation of benzofurans, benzothiophenes, indoles,
and indolizines as cardiovascular agents
INVENTOR(S): Gubin, Jean; Lucchetti, Jean; Inion, Henri;
Chatelain, Pierre; Rosseels, Gilbert; Kilenyi, Steven
PATENT ASSIGNEE(S): Sanofi SA, Fr.; Societe Anon. Sanofi-Pharma N. V.
SOURCE: Eur. Pat. Appl., 81 pp.
CODEN: EPXNDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------------------------------------------|------|----------|-----------------|---------------|
| EP 471609 | A1 | 19920219 | EP 1991-402201 | 19910806 |
| EP 471609 | B1 | 19961127 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| FR 2665444 | A1 | 19920207 | FR 1990-10036 | 19900806 |
| FR 2665444 | B1 | 19921127 | | |
| CA 2047773 | AA | 19920207 | CA 1991-2047773 | 19910724 |
| CA 2047773 | C | 20000912 | | |
| US 5223510 | A | 19930629 | US 1991-736580 | 19910726 |
| ZA 9105934 | A | 19930331 | ZA 1991-5934 | 19910729 |
| IL 98991 | A1 | 19951208 | IL 1991-98991 | 19910729 |
| AU 9181428 | A1 | 19920213 | AU 1991-81428 | 19910730 |
| AU 648569 | B2 | 19940428 | | |
| FI 9103704 | A | 19920207 | FI 1991-3704 | 19910802 |
| FI 114914 | B1 | 20050131 | | |
| NO 9103033 | A | 19920207 | NO 1991-3033 | 19910805 |
| NO 179042 | B | 19960415 | | |
| NO 179042 | C | 19960724 | | |
| BR 9103354 | A | 19920505 | BR 1991-3354 | 19910805 |
| JP 04316554 | A2 | 19921106 | JP 1991-195431 | 19910805 |
| JP 2795759 | B2 | 19980910 | | |
| PL 168044 | B1 | 19951230 | PL 1991-291334 | 19910805 |
| RU 2095357 | C1 | 19971110 | RU 1991-5001351 | 19910805 |
| CZ 288527 | B6 | 20010711 | CZ 1991-2427 | 19910805 |
| SK 283527 | B6 | 20030911 | SK 1991-2427 | 19910805 |
| HU 62280 | A2 | 19930428 | HU 1991-2610 | 19910806 |
| HU 218271 | B | 20000728 | | |
| AT 145645 | E | 19961215 | AT 1991-402201 | 19910806 |
| ES 2096639 | T3 | 19970316 | ES 1991-402201 | 19910806 |
| KR 190673 | B1 | 19990601 | KR 1991-13726 | 19910806 |
| PRIORITY APPL. INFO.: | | | | A |
| | | | | FR 1990-10036 |
| | | | | CS 1991-2427 |
| | | | | A |
| | | | | 19910805 |

OTHER SOURCE(S): MARPAT 117:26336
GI

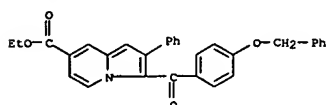


AB Title compds. I (R1 = various (un)substituted benzofuryl, benzothienyl, indolyl, and indoliziny groups; Y = CO, CH(OR4); R2 = H, alkyl; R3 = alkyl, certain (hetero)aryl and (hetero)aralkyl; or R2R3 = alkenylene or alkenylene optionally substituted by Ph or interrupted by O, NH, alkyl- or phenylimino, or N; R4 = H, alkyl, acyl; A = O, S, NHCO; when W = W' = CH or N, Z = O or S; or W, W', and Z form (un)substituted benzene nucleus; n = 1-5) were prepared. For example, 2-butyl-5-nitrobenzofuran (preparation given) underwent Friedel-Crafts reaction with anisoyl chloride and SnCl4 to give 83.5% 3-(4-methoxybenzoyl) derivative, which was subjected to demethylation by AlCl3 (90.1%), etherification with Cl(CH2)3NBu2 (88.76%), hydrogenation of the NO2 group (95.28%), and N-methanesulfonylation (61.1%) to give title compound II, isolated as the HCl salt. At 10 mg/kg in anesthetized rats, II increased the duration of action potential by 60%. A formulation, 35 syntheses of I, approx. 100 addnl. listed I, addnl. action potential data, and antiadrenergic data for some I, are given. I are also said to be useful as potentiators of anticancer agents.

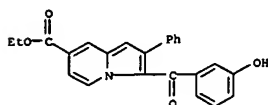
IT 54342-81-3P 141645-79-6P 141645-81-0P
141645-82-1P 141645-83-2P 141645-84-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of cardiovascular agents)

RN 54342-81-3 CAPLUS
CN Pyridinium, 4-(ethoxycarbonyl)-2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

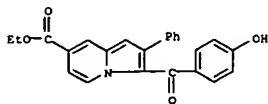
L15 ANSWER 28 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN 7-Indolizinecarboxylic acid, 2-phenyl-3-[4-(phenylmethoxy)benzoyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 141645-83-2 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-(3-hydroxybenzoyl)-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

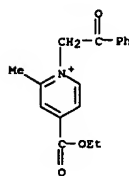


RN 141645-84-3 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-(4-hydroxybenzoyl)-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

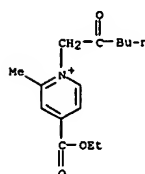


IT 141626-15-5P 141626-16-6P 141626-17-7P
141626-18-8P 141626-19-9P 141626-20-2P
141626-21-3P 141627-05-6P 141627-06-7P
141627-08-9P 141627-09-0P 141627-10-3P
141627-11-4P 141627-13-6P 141627-15-8P
141627-16-9P 141627-17-0P 141627-25-0P
141627-26-1P 141627-27-2P 141627-28-3P
141627-30-7P 141627-32-9P 141627-38-5P
141645-00-3P 141645-01-4P 141645-09-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as cardiovascular agent)

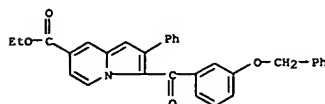
RN 141626-15-5 CAPLUS
CN 7-Indolizinecarboxylic acid, 2-butyl-3-[4-[3-(dibutylamino)propoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)



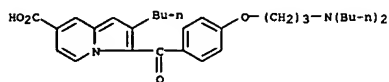
● Br⁻
RN 141645-79-6 CAPLUS
CN Pyridinium, 4-(ethoxycarbonyl)-2-methyl-1-(2-oxohexyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻
RN 141645-81-0 CAPLUS
CN 7-Indolizinecarboxylic acid, 2-phenyl-3-[3-(phenylmethoxy)benzoyl]-, ethyl ester (9CI) (CA INDEX NAME)

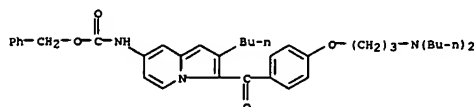


RN 141645-82-1 CAPLUS

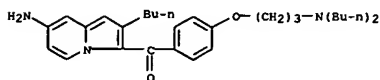


● HCl

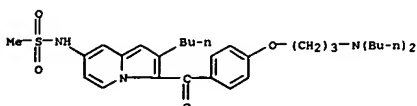
RN 141626-16-6 CAPLUS
CN Carbamic acid, [2-butyl-3-[4-[3-(dibutylamino)propoxy]benzoyl]-7-indoliziny]-, phenylmethyl ester (9CI) (CA INDEX NAME)



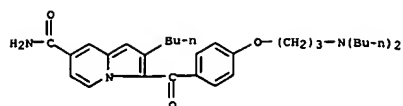
RN 141626-17-7 CAPLUS
CN Methanone, (7-amino-2-butyl-3-indoliziny)[4-[3-(dibutylamino)propoxy]phenyl]- (9CI) (CA INDEX NAME)



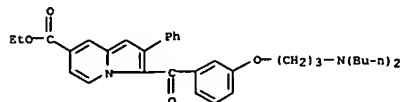
RN 141626-18-8 CAPLUS
CN Methanesulfonamide, N-[2-butyl-3-[4-[3-(dibutylamino)propoxy]benzoyl]-7-indoliziny]- (9CI) (CA INDEX NAME)



RN 141626-19-9 CAPLUS
CN 7-Indolizinecarboxamide, 2-butyl-3-[4-[3-(dibutylamino)propoxy]benzoyl]- (9CI) (CA INDEX NAME)



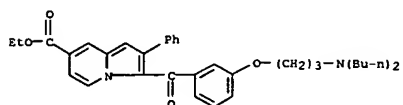
RN 141626-20-2 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-[3-[3-(dibutylamino)propoxy]benzoyl]-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 141626-21-3 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-[3-[3-(dibutylamino)propoxy]benzoyl]-2-phenyl-, ethyl ester, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CH 1

CRN 141626-20-2
CMF C35 H42 N2 O4

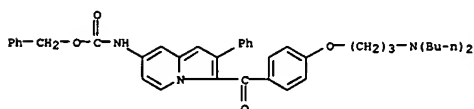


CH 2

CRN 144-62-7
CMF C2 H2 O4



RN 141627-05-6 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-[3-[3-(dibutylamino)propoxy]benzoyl]-2-phenyl-, ethyl ester, ethanedioate (1:1) (9CI) (CA INDEX NAME)

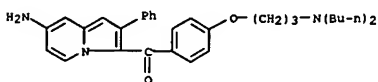


CH 2

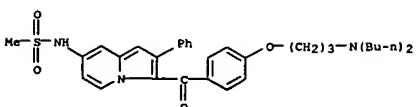
CRN 144-62-7
CMF C2 H2 O4



RN 141627-09-0 CAPLUS
CN Methanone, (7-amino-2-phenyl-3-indoliziny)[4-[3-(dibutylamino)propoxy]phenyl]- (9CI) (CA INDEX NAME)



RN 141627-10-3 CAPLUS
CN Methanesulfonamide, N-[3-[4-[3-(dibutylamino)propoxy]benzoyl]-2-phenyl-7-indoliziny]-, monohydrochloride (9CI) (CA INDEX NAME)

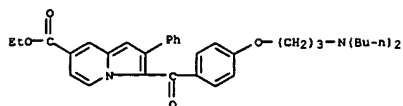


● HCl

RN 141627-11-4 CAPLUS
CN 7-Indolizinecarboxamide, 2-butyl-3-[4-[3-(dibutylamino)propoxy]benzoyl]-N-methyl- (9CI) (CA INDEX NAME)

CH 1

CRN 141627-04-5
CMF C35 H42 N2 O4

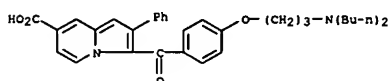


CH 2

CRN 144-62-7
CMF C2 H2 O4



RN 141627-06-7 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-[4-[3-(dibutylamino)propoxy]benzoyl]-2-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

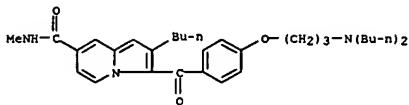


● HCl

RN 141627-08-9 CAPLUS
CN Carbamic acid, [3-[4-[3-(dibutylamino)propoxy]benzoyl]-2-phenyl-7-indoliziny]-, phenylmethyl ester, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CH 1

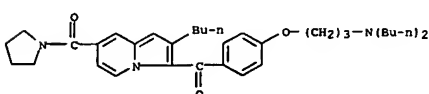
CRN 141627-07-8
CMF C40 H45 N3 O4



RN 141627-13-6 CAPLUS
CN Pyrrolidine, 1-[(2-butyl-3-[4-[3-(dibutylamino)propoxy]benzoyl]-7-indoliziny]carbonyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CH 1

CRN 141627-12-5
CMF C35 H49 N3 O3



CH 2

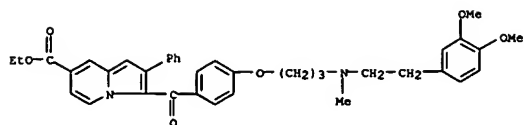
CRN 144-62-7
CMF C2 H2 O4



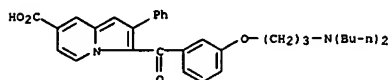
RN 141627-15-8 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-[4-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propoxy]benzoyl]-2-phenyl-, ethyl ester, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CH 1

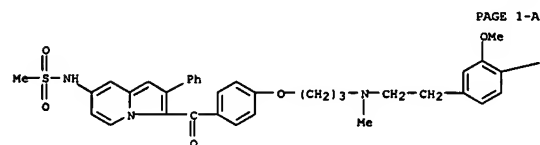
CRN 141627-14-7
CMF C38 H40 N2 O6



CH 2

CRN 144-62-7
CMF C2 H2 O4RN 141627-16-9 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-[3-[3-(dibutylamino)propoxy]benzoyl]-2-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

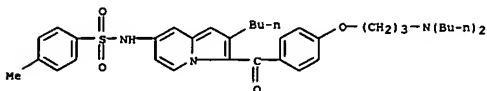
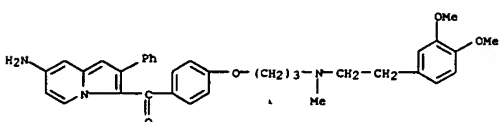
● HCl

RN 141627-17-0 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-[4-[3-[(2-(3,4-dimethoxyphenyl)ethyl)methylamino]propoxy]benzoyl]-2-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

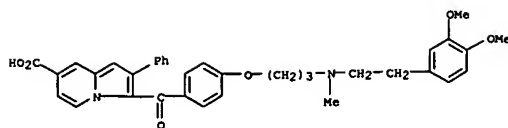
● HCl

PAGE 1-B

—OMe

RN 141627-27-2 CAPLUS
CN Benzenesulfonamide, N-[2-butyl-3-[4-[3-(dibutylamino)propoxy]benzoyl]-7-indoliziny]-4-methyl- (9CI) (CA INDEX NAME)RN 141627-28-3 CAPLUS
CN Methanone, (7-amino-2-phenyl-3-indoliziny)[4-[3-[(2-(3,4-dimethoxyphenyl)ethyl)methylamino]propoxy]phenyl]- (9CI) (CA INDEX NAME)RN 141627-30-7 CAPLUS
CN Methanesulfonamide, N-[2-butyl-3-[4-[3-[(2-(3,4-dimethoxyphenyl)ethyl)methylamino]propoxy]benzoyl]-7-indoliziny]-N-(methylsulfonyl)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

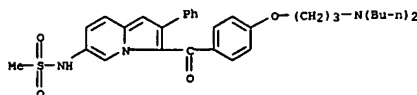
CH 1



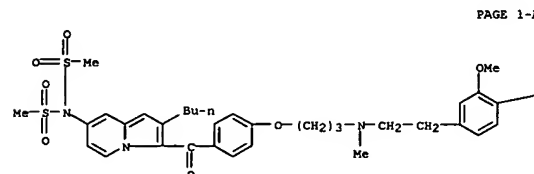
● HCl

RN 141627-25-0 CAPLUS
CN Methanesulfonamide, N-[3-[4-[3-(dibutylamino)propoxy]benzoyl]-2-phenyl-6-indoliziny]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CH 1

CRN 141627-24-9
CMF C33 H41 N3 O4 S

CH 2

CRN 144-62-7
CMF C2 H2 O4RN 141627-26-1 CAPLUS
CN Methanesulfonamide, N-[3-[4-[3-[(2-(3,4-dimethoxyphenyl)ethyl)methylamino]propoxy]benzoyl]-2-phenyl-7-indoliziny]-, monohydrochloride (9CI) (CA INDEX NAME)CRN 141627-29-4
CMF C35 H45 N3 O8 S2

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PAGE 1-B

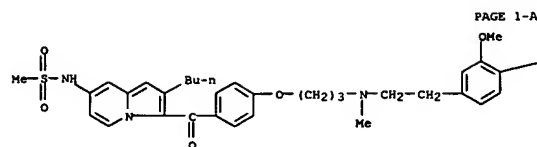
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CH 2

CRN 144-62-7
CMF C2 H2 O4RN 141627-32-9 CAPLUS
CN Methanesulfonamide, N-[2-butyl-3-[4-[3-[(2-(3,4-dimethoxyphenyl)ethyl)methylamino]propoxy]benzoyl]-7-indoliziny]-, ethanedioate (2:3) (9CI) (CA INDEX NAME)

CH 1

CRN 141627-31-8
CMF C34 H43 N3 O6 S



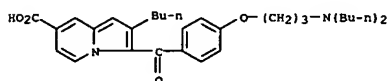
PAGE 1-B

—OMe

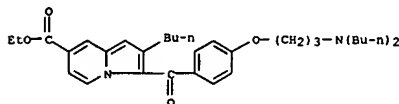
CM 2

CRN 144-62-7
CMF C2 H2 O4

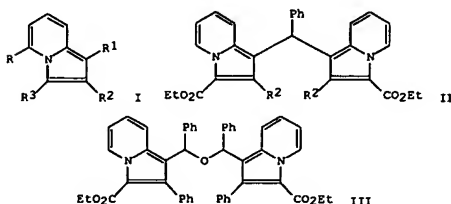
RN 141627-38-5 CAPLUS
CN 7-Indolizinecarboxylic acid,
2-butyl-3-[4-{3-(dibutylamino)propoxy}benzoyl]-
1-, ethyl ester (9CI) (CA INDEX NAME)



RN 141645-00-3 CAPLUS
CN 7-Indolizinecarboxylic acid,
2-butyl-3-[4-{3-(dibutylamino)propoxy}benzoyl]-
1-, ethyl ester (9CI) (CA INDEX NAME)

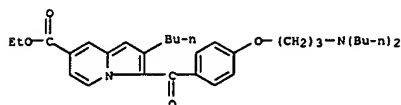


L15 ANSWER 29 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1991:206937 CAPLUS
DOCUMENT NUMBER: 114:206937
TITLE: Acid-catalyzed reactions of 1- and 3-(α -hydroxybenzyl)indolizines
AUTHOR(S): Miki, Yasuyoshi; Hiroishi, Yuji; Hachiken, Hiroko; Takemura, Shoji
CORPORATE SOURCE: Fac. Pharm. Sci., Kinki Univ., Higashi-Osaka, 577, Japan
SOURCE: Journal of Heterocyclic Chemistry (1991), 28(1), 45-8
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 114:206937
GI



AB Treatment of 1- and 3-(α -hydroxybenzyl)indolizines I [R = H, R1 = CH(OH)Ph, R2 = H, Ph, R3 = CO2Et; R = H, Me, R1 = CO2Me, R2 = H, Ph, R3 = CH(OH)Ph] with trifluoroacetic acid in dichloromethane gave phenylbis(α -indoliziny)methanes, bis(α -(indoliziny)benzyl)ethers and indolizines, depending upon the presence or absence of the substituent at the 2- or 5-position and the reaction conditions used. Thus, treating I [R = H, R1 = CH(OH)Ph, R2 = Ph, R3 = CO2Et] with CF3CO2H gave phenylbis(indoliziny)methane II and the bis(indoliziny)benzyl ether III. I [R = R2 = H, R1 = CH(OH)Ph, R3 = CO2Et] gave only II (R2 = H).
IT 32896-98-3
RL: RCT (Reactant); RACT (Reactant or reagent) (cyclocondensation of, with Me propiolate, benzoylmethylindolizinecarboxylate from)
RN 32896-98-3 CAPLUS
CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

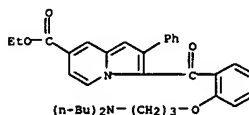
RN 141645-01-4 CAPLUS
CN 7-Indolizinecarboxylic acid,
2-butyl-3-[4-{3-(dibutylamino)propoxy}benzoyl]-
1-, ethyl ester, ethanedioate (1:1) (9CI) (CA INDEX NAME)
CM 1
CRN 141645-00-3
CMF C33 H46 N2 O4



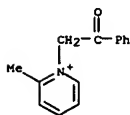
CM 2

CRN 144-62-7
CMF C2 H2 O4

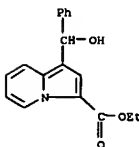
RN 141645-09-2 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-[2-{3-(dibutylamino)propoxy}benzoyl]-2-phenyl-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



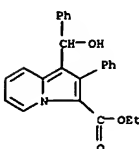
● HCl

● Br⁻

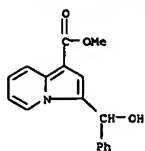
IT 133619-69-9P 133619-70-2P 133619-71-3P
133619-72-4P 133619-73-5P 133619-76-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, in trifluoroacetic acid)
RN 133619-69-9 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-(hydroxyphenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



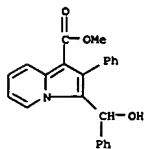
RN 133619-70-2 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-(hydroxyphenylmethyl)-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



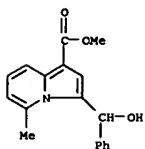
RN 133619-71-3 CAPLUS
CN 1-Indolizinecarboxylic acid, 3-(hydroxyphenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)



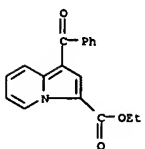
RN 133619-72-4 CAPLUS
CN 1-Indolizinecarboxylic acid, 3-(hydroxyphenylmethyl)-2-phenyl-, methyl ester (9CI) (CA INDEX NAME)



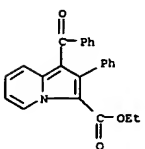
RN 133619-73-5 CAPLUS
CN 1-Indolizinecarboxylic acid, 3-(hydroxyphenylmethyl)-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



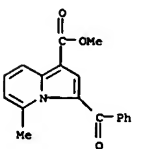
RN 133619-76-8 CAPLUS
CN 3-Indolizinecarboxylic acid, 1,1'-(oxybis(phenylmethylene))bis[2-phenyl-, diethyl ester (9CI) (CA INDEX NAME)



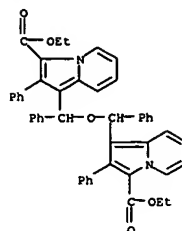
RN 133619-67-7 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-benzoyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



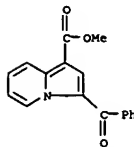
RN 133619-68-8 CAPLUS
CN 1-Indolizinecarboxylic acid, 3-benzoyl-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



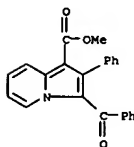
IT 133619-74-6P 133619-75-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 133619-74-6 CAPLUS
CN 3-Indolizinecarboxylic acid, 1,1'-(phenylmethylene)bis-, diethyl ester (9CI) (CA INDEX NAME)



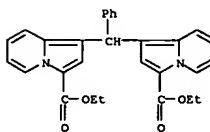
IT 17281-79-7P 56765-88-9P 128352-94-3P
133619-67-7P 133619-68-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reduction of)
RN 17281-79-7 CAPLUS
CN 1-Indolizinecarboxylic acid, 3-benzoyl-, methyl ester (8CI, 9CI) (CA INDEX NAME)



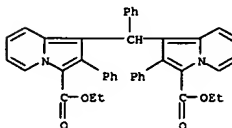
RN 56765-88-9 CAPLUS
CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-phenyl-, methyl ester (9CI) (CA INDEX NAME)



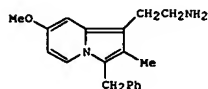
RN 128352-94-3 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-benzoyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 133619-75-7 CAPLUS
CN 3-Indolizinecarboxylic acid, 1,1'-(phenylmethylene)bis[2-phenyl-, diethyl ester (9CI) (CA INDEX NAME)

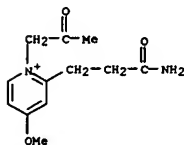


L15 ANSWER 30 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1991:143047 CAPLUS
 DOCUMENT NUMBER: 114:143047
 TITLE: Indolizine derivatives with biological activity. VI. 1-(2-Aminoethyl)-3-benzyl-7-methoxy-2-methylindolizine, benanserine structural analog
 AUTHOR(S): Cingolani, G. M.; Claudi, F.; Massi, M.; Venturi, F.
 CORPORATE SOURCE: Dip. Sci. Chim., Univ. Camerino, Camerino, 62032, Italy
 SOURCE: European Journal of Medicinal Chemistry (1990), 25(8), 709-12
 CODEN: EJMCA5; ISSN: 0223-5234
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 114:143047
 GI



I

AB The title compound (I) was prepared from 3-(4-methoxy-2-pyridyl)propionate.
 In comparison with benanserine I showed greatly reduced antihistaminic activity and somewhat reduced antiserotonin activity whereas the anticholinergic activity remained unaffected.
 IT 132868-07-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclization of)
 RN 132868-07-6 CAPLUS
 CN Pyridinium, 2-(3-amino-3-oxopropyl)-4-methoxy-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

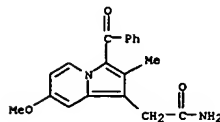
IT 132868-09-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

L15 ANSWER 31 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1989:594506 CAPLUS
 DOCUMENT NUMBER: 111:194506
 TITLE: Synthesis of cycl[3.2.2]azine and benzo[g]cycl[3.2.2]azine derivatives by use of the [2 + 8] cycloaddition reaction of indolizines and dimethyl acetylenedicarboxylate
 AUTHOR(S): Tominaga, Yoshinori; Shiroshita, Yoshihide; Kurokawa, Tomohiko; Gotou, Hiromi; Matsuda, Yoshiro; Hosomi, Akira
 CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, 852, Japan
 SOURCE: Journal of Heterocyclic Chemistry (1989), 26(2), 477-87
 CODEN: JHTCAD; ISSN: 0022-152X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 111:194506
 GI

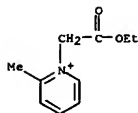
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The reaction of ethoxycarbonylmethylpyridinium bromides I (R = H, Me, Et, CONH2, CONEt2; R1 = H, Et, Ac, PhCH2; R2 = H, Me) with (MeS)2C:CHNO2, in the presence of Et3N in EtOH gave the desired Et 2-methylthioindolizine-3-carboxylates II (R3 = H, Me, COEt; R4 = H, Et, PhCH2; R5 = H, Me, Et, CONH2; R6 = H) in good yields along with II (R3 = H, CONH2, CONEt2; R4 = H, Ac; R5 = H, R6 = NO2). Deesterification of II (R6 = H) with NaOH in MeOH followed by treatment with polyphosphoric acid gave the 2-methylthioindolizines III (R3 = H, Me; R4 = H, PhCH2; R5 = H, Me, Et) in good yields. The desulfurization of III with Raney-nickel in EtOH gave indolizine, 8-methylindolizine, 6,8-dimethylindolizine. Similarly, pyrrolo[2,1-a]isoquinoline (IV) was also synthesized. These indolizine and pyrrolo[2,1-a]isoquinoline derivs. were allowed to react with MeO2CC.tplbond.CCO2Me to give the corresponding cycl[3.2.2]azines, e.g., V, and benzo[g]cycl[3.2.2]azine derivs., e.g., VI.
 IT 55814-02-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclocondensation of, with bis(methylthio)nitroethylene)
 RN 55814-02-3 CAPLUS
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 30 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 (Reactant or reagent)
 (prepn. and redn. of)
 RN 132868-09-8 CAPLUS
 CN 1-Indolizineacetamide, 3-benzoyl-7-methoxy-2-methyl- (9CI) (CA INDEX NAME)

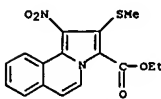


L15 ANSWER 31 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

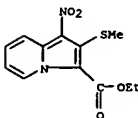


● Br⁻

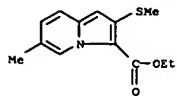
IT 56823-02-0P 123471-46-5P 123471-54-5P
 123471-56-7P 123471-58-9P 123471-59-0P
 123471-60-3P 123471-61-4P 123471-62-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 56823-02-0 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 2-(methylthio)-1-nitro-, ethyl ester (9CI) (CA INDEX NAME)



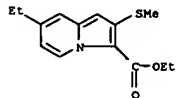
RN 123471-46-5 CAPLUS
 CN 3-Indolizinecarboxylic acid, 2-(methylthio)-1-nitro-, ethyl ester (9CI) (CA INDEX NAME)



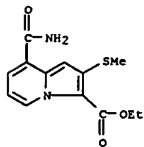
RN 123471-54-5 CAPLUS
 CN 3-Indolizinecarboxylic acid, 6-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



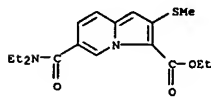
RN 123471-56-7 CAPLUS
CN 3-Indolizinecarboxylic acid, 7-ethyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



RN 123471-58-9 CAPLUS
CN 3-Indolizinecarboxylic acid, 8-(aminocarbonyl)-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

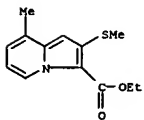


RN 123471-59-0 CAPLUS
CN 3-Indolizinecarboxylic acid, 6-[(diethylamino)carbonyl]-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

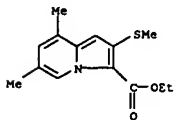


RN 123471-60-3 CAPLUS
CN 3-Indolizinecarboxylic acid, 6-(aminocarbonyl)-2-(methylthio)-1-nitro-, ethyl ester (9CI) (CA INDEX NAME)

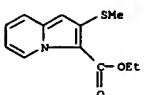
RN 64908-43-6 CAPLUS
CN 3-Indolizinecarboxylic acid, 8-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



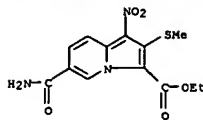
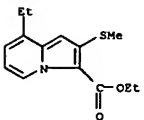
RN 64995-28-4 CAPLUS
CN 3-Indolizinecarboxylic acid, 6,8-dimethyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



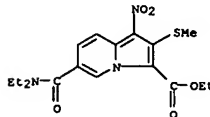
RN 123471-45-4 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



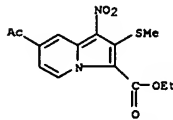
RN 123471-55-6 CAPLUS
CN 3-Indolizinecarboxylic acid, 8-ethyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



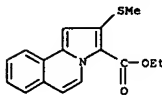
RN 123471-61-4 CAPLUS
CN 3-Indolizinecarboxylic acid, 6-[(diethylamino)carbonyl]-2-(methylthio)-1-nitro-, ethyl ester (9CI) (CA INDEX NAME)



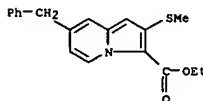
RN 123471-62-5 CAPLUS
CN 3-Indolizinecarboxylic acid, 7-acetyl-2-(methylthio)-1-nitro-, ethyl ester (9CI) (CA INDEX NAME)



IT 56823-03-1P 64908-43-6P 64995-28-4P
123471-45-4P 123471-55-6P 123471-57-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, hydrolysis and decarboxylation of)
RN 56823-03-1 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



RN 123471-57-8 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-(methylthio)-7-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1989:457575 CAPLUS
DOCUMENT NUMBER: 111:57575
TITLE: Preparation of new nitrogen-bridged heterocycles.
19.

AUTHOR(S):

CORPORATE SOURCE:
SOURCE:

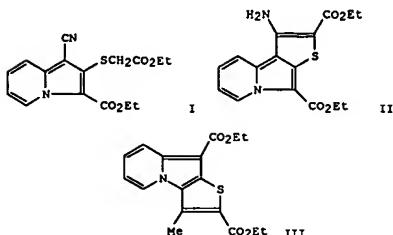
DOCUMENT TYPE:

LANGUAGE:

OTHER SOURCE(S):

GI

Smooth syntheses of thieno[3,2-a]- and thieno[2,3-b]indolizine derivatives
Kakehi, Akikazu; Ito, Suketaka; Fujii, Tuneso;
Morimoto, Yuichiro; Matsumoto, Shinichi; Shiohara, Morio
Fac. Eng., Shinshu Univ., Nagano, 380, India
Bulletin of the Chemical Society of Japan (1989),
62(1), 119-27
CODEN: BCSJAH; ISSN: 0009-2673
Journal
English
CASREACT 111:57575

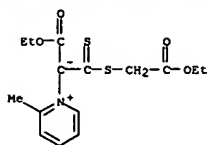


AB The reactions of 2-(ethoxycarbonylmethylthio)indolizines having an acyl and/or a cyano group at the 1- and 3-positions, e.g. I, under several alkaline conditions were examined, and title compds., thieno[3,2-a]-, e.g. II, and thieno[2,3-b]indolizine, e.g. III, derivs. were obtained in fairly good yields. The cyclization modes observed in these transformation reactions were in accord with those expected by the MO calcs. using some model compds. and by the stereochem. consideration of starting indolizines.

IT The alkylations of 3-hydroxythieno[3,2-a]- and 3-hydroxythieno[2,3-b]indolizines were also investigated and the corresponding O- and C-alkylated heterocycles were formed in good yields.

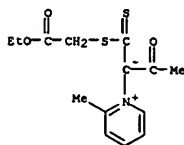
IT 121821-54-3 121821-57-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkylation-cyclization of, indolizine derivs. from)

RN 121821-54-3 CAPLUS
CN Pyridinium, 2-methyl-,
1-(ethoxycarbonyl)-2-[(2-ethoxy-2-oxoethyl)thio]-2-thioxyethylide (9CI) (CA INDEX NAME)



RN 121821-57-6 CAPLUS

CN Pyridinium, 2-methyl-, 1-[(2-ethoxy-2-oxoethyl)thio]thioxomethyl]-2-oxopropylide (9CI) (CA INDEX NAME)



IT 113444-77-2P 113444-78-3P 113444-79-4P

113444-80-7P 113444-81-8P 113444-82-9P

121821-39-4P 121821-40-7P 121821-41-8P

121821-42-9P 121821-43-0P 121821-44-1P

121821-45-2P 121821-46-3P 121821-47-4P

121821-48-5P 121821-49-6P 121821-50-9P

121821-51-0P 121821-52-1P

RL: RCT (Reactant); SPH (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

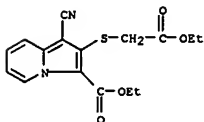
(Preparation and intramol. cyclization of, thienoindolizine derivs.

from)

RN 113444-77-2 CAPLUS

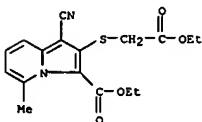
CN 3-Indolizinecarboxylic acid, 1-cyano-2-[(2-ethoxy-2-oxoethyl)thio]-,

ethyl ester (9CI) (CA INDEX NAME)



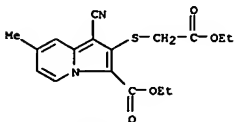
RN 113444-78-3 CAPLUS

CN 3-Indolizinecarboxylic acid, 1-cyano-2-[(2-ethoxy-2-oxoethyl)thio]-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



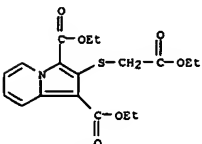
RN 113444-79-4 CAPLUS

CN 3-Indolizinecarboxylic acid, 1-cyano-2-[(2-ethoxy-2-oxoethyl)thio]-7-methyl-, ethyl ester (9CI) (CA INDEX NAME)



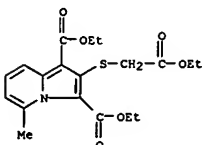
RN 113444-80-7 CAPLUS

CN 1,3-Indolizinedicarboxylic acid, 2-[(2-ethoxy-2-oxoethyl)thio]-, diethyl ester (9CI) (CA INDEX NAME)



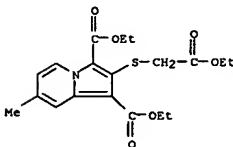
RN 113444-81-8 CAPLUS

CN 1,3-Indolizinedicarboxylic acid, 2-[(2-ethoxy-2-oxoethyl)thio]-5-methyl-, diethyl ester (9CI) (CA INDEX NAME)



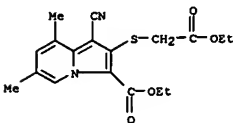
RN 113444-82-9 CAPLUS

CN 1,3-Indolizinedicarboxylic acid, 2-[(2-ethoxy-2-oxoethyl)thio]-7-methyl-, diethyl ester (9CI) (CA INDEX NAME)



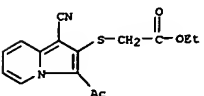
RN 121821-39-4 CAPLUS

CN 3-Indolizinecarboxylic acid, 1-cyano-2-[(2-ethoxy-2-oxoethyl)thio]-6,8-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)

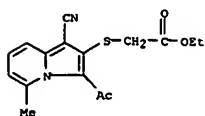


RN 121821-40-7 CAPLUS

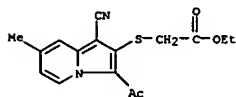
CN Acetic acid, [(3-acetyl-1-cyano-2-indolizinyloxy)thio]-, ethyl ester (9CI) (CA INDEX NAME)



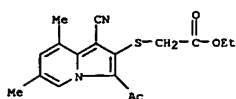
L15 ANSWER 32 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RN 121821-41-8 CAPLUS
 CN Acetic acid, [(3-acetyl-1-cyano-5-methyl-2-indoliziny)thio]-, ethyl ester (9CI) (CA INDEX NAME)



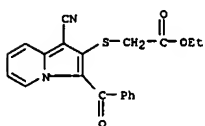
RN 121821-42-9 CAPLUS
 CN Acetic acid, [(3-acetyl-1-cyano-7-methyl-2-indoliziny)thio]-, ethyl ester (9CI) (CA INDEX NAME)



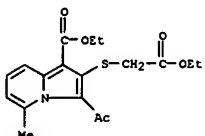
RN 121821-43-0 CAPLUS
 CN Acetic acid, [(3-acetyl-1-cyano-6,8-dimethyl-2-indoliziny)thio]-, ethyl ester (9CI) (CA INDEX NAME)



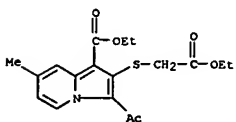
RN 121821-44-1 CAPLUS
 CN Acetic acid, [(3-benzoyl-1-cyano-2-indoliziny)thio]-, ethyl ester (9CI) (CA INDEX NAME)



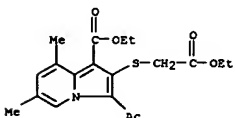
L15 ANSWER 32 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 121821-49-6 CAPLUS
 CN 1-Indolizinecarboxylic acid, 3-acetyl-2-[(2-ethoxy-2-oxoethyl)thio]-7-methyl-, ethyl ester (9CI) (CA INDEX NAME)



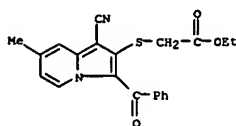
RN 121821-50-9 CAPLUS
 CN 1-Indolizinecarboxylic acid, 3-acetyl-2-[(2-ethoxy-2-oxoethyl)thio]-6,8-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



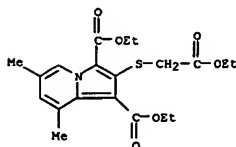
RN 121821-51-0 CAPLUS
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-[(2-ethoxy-2-oxoethyl)thio]-, ethyl ester (9CI) (CA INDEX NAME)

L15 ANSWER 32 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

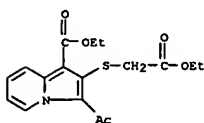
RN 121821-45-2 CAPLUS
 CN Acetic acid, [(3-benzoyl-1-cyano-7-methyl-2-indoliziny)thio]-, ethyl ester (9CI) (CA INDEX NAME)



RN 121821-46-3 CAPLUS
 CN 1,3-Indolizinedicarboxylic acid, 2-[(2-ethoxy-2-oxoethyl)thio]-6,8-dimethyl-, diethyl ester (9CI) (CA INDEX NAME)



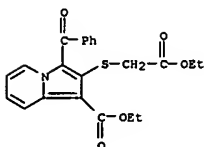
RN 121821-47-4 CAPLUS
 CN 1-Indolizinecarboxylic acid, 3-acetyl-2-[(2-ethoxy-2-oxoethyl)thio]-, ethyl ester (9CI) (CA INDEX NAME)



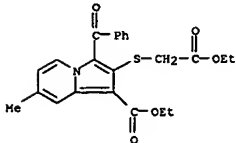
RN 121821-48-5 CAPLUS
 CN 1-Indolizinecarboxylic acid, 3-acetyl-2-[(2-ethoxy-2-oxoethyl)thio]-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



L15 ANSWER 32 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

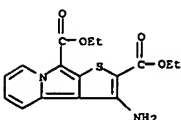


RN 121821-52-1 CAPLUS
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-[(2-ethoxy-2-oxoethyl)thio]-7-methyl-, ethyl ester (9CI) (CA INDEX NAME)

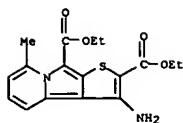


IT 113444-83-0P 113444-84-1P 113444-85-2P
 121821-59-8P 121821-60-1P 121821-61-2P
 121821-62-3P 121821-64-5P 121821-65-6P
 121821-66-7P 121821-67-8P 121821-72-5P
 121821-84-9P 121821-85-0P 121821-86-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

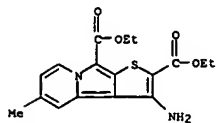
RN 113444-83-0 CAPLUS
 CN Thieno[3,2-a]indolizine-2,9-dicarboxylic acid, 3-amino-, diethyl ester (9CI) (CA INDEX NAME)



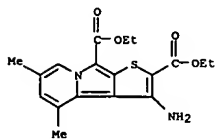
RN 113444-84-1 CAPLUS
 CN Thieno[3,2-a]indolizine-2,9-dicarboxylic acid, 3-amino-7-methyl-, diethyl ester (9CI) (CA INDEX NAME)



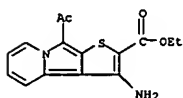
RN 113444-85-2 CAPLUS
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 3-amino-5-methyl-, diethyl ester (9CI) (CA INDEX NAME)



RN 121821-59-8 CAPLUS
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 3-amino-4,6-dimethyl-, diethyl ester (9CI) (CA INDEX NAME)

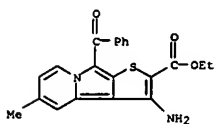


RN 121821-60-1 CAPLUS
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 9-acetyl-3-amino-, ethyl ester (9CI) (CA INDEX NAME)

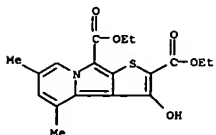


RN 121821-61-2 CAPLUS

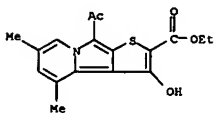
RN 121821-66-7 CAPLUS
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 3-amino-9-benzoyl-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 121821-67-8 CAPLUS
CN Thieno[3,2-a]indolizine-2,9-dicarboxylic acid, 3-hydroxy-4,6-dimethyl-, diethyl ester (9CI) (CA INDEX NAME)

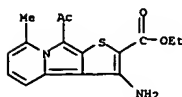


RN 121821-72-5 CAPLUS
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 9-acetyl-3-hydroxy-4,6-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)

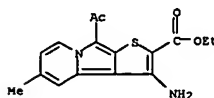


RN 121821-84-9 CAPLUS
CN Thieno[3,2-a]indolizine-2,9-dicarboxylic acid, 3-methoxy-4,6-dimethyl-, diethyl ester (9CI) (CA INDEX NAME)

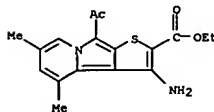
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 9-acetyl-3-amino-7-methyl-, ethyl ester (9CI) (CA INDEX NAME)



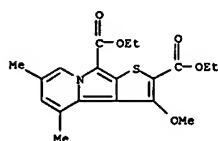
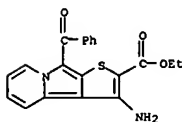
RN 121821-62-3 CAPLUS
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 9-acetyl-3-amino-7-methyl-, ethyl ester (9CI) (CA INDEX NAME)



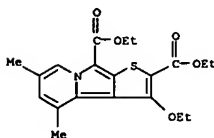
RN 121821-64-5 CAPLUS
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 9-acetyl-3-amino-4,6-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



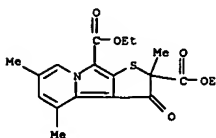
RN 121821-65-6 CAPLUS
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 3-amino-9-benzoyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 121821-85-0 CAPLUS
CN Thieno[3,2-a]indolizine-2,9-dicarboxylic acid, 3-ethoxy-4,6-dimethyl-, diethyl ester (9CI) (CA INDEX NAME)



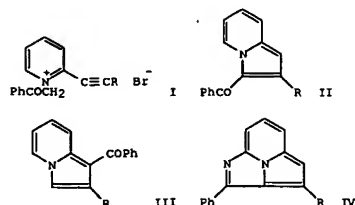
RN 121821-86-1 CAPLUS
CN Thieno[3,2-a]indolizine-2,9-dicarboxylic acid, 2,3-dihydro-2,4,6-trimethyl-3-oxo-, diethyl ester (9CI) (CA INDEX NAME)



ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:

1989:231395 CAPLUS
110:231395
Thermal rearrangements of cyclic amine ylides. VIII.
Intramolecular cyclization of 2-ethynylpyridine
N-ylides into indolizines and cycl[3.2.2]azines
Sashida, Haruki; Kato, Masanobu; Tauchiya, Takashi
Sch. Pharm., Hokuriku Univ., Kanazawa, 920-11, Japan
Chemical & Pharmaceutical Bulletin (1988), 36(10),
3826-32
CODEN: CPBTAL; ISSN: 0009-2363
Journal
English
CASREACT 110:231395

AUTHOR(S):
CORPORATE SOURCE:
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
OTHER SOURCE(S):
GI



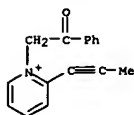
AB Treatment of 6-unsubstituted 2-ethynyl-1-phenacylpyridinium bromides I (R = Me, Bu, Ph) with 1,5-diazabicyclo[5.4.0]undec-5-ene in refluxing benzene

resulted in cyclization to give the 3-benzoylindolizines II via the N-ylide intermediates, whereas heating the salts I in refluxing acetic acid afforded the 1-benzoylindolizines III. Upon similar treatment with the base, 2-ethynyl-6-methylpyridinium salts gave the 3-benzoyl-5-methylindolizines the reaction of 6-amino-2-ethynylpyridines with phenacyl

bromide produced 5-ethynyl-1-azaindolizines, which were converted into 1-azacycl[3.2.2]azines IV (R = Me, Bu, Ph).

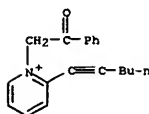
IT 96206-84-7P 96206-85-8P 96206-86-9P
96206-87-0P 96206-88-1P 96206-89-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and intramol. cyclization of)

RN 96206-84-7 CAPLUS
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(1-propynyl)-, bromide (9CI) (CA INDEX NAME)



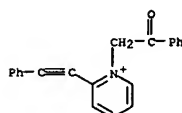
● Br⁻

RN 96206-85-8 CAPLUS
CN Pyridinium, 2-(1-hexynyl)-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



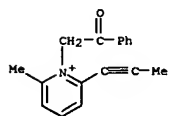
● Br⁻

RN 96206-86-9 CAPLUS
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(phenylethynyl)-, bromide (9CI) (CA INDEX NAME)



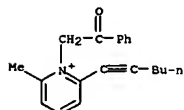
● Br⁻

RN 96206-87-0 CAPLUS
CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-6-(1-propynyl)-, bromide (9CI) (CA INDEX NAME)



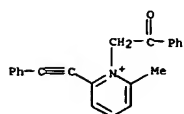
● Br⁻

RN 96206-88-1 CAPLUS
CN Pyridinium, 2-(1-hexynyl)-6-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 96206-89-2 CAPLUS
CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-6-(phenylethynyl)-, bromide (9CI) (CA INDEX NAME)

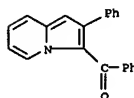


● Br⁻

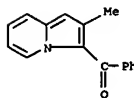
IT 14759-45-6P 36944-82-8P 96206-93-8P
96206-96-1P 96206-97-2P 96206-98-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

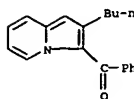
RN 14759-45-6 CAPLUS
CN Methanone, phenyl(2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



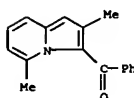
RN 36944-82-8 CAPLUS
CN Methanone, (2-methyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



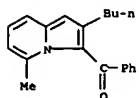
RN 96206-93-8 CAPLUS
CN Methanone, (2-butyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



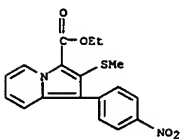
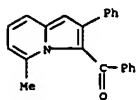
RN 96206-96-1 CAPLUS
CN Methanone, (2,5-dimethyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



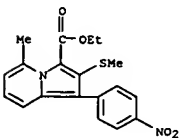
RN 96206-97-2 CAPLUS
CN Methanone, (2-butyl-5-methyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



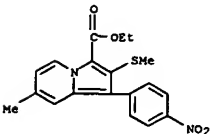
RN 96206-98-3 CAPLUS
CN Methanone, (5-methyl-2-phenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



RN 119092-84-1 CAPLUS
CN 3-Indolizinecarboxylic acid, 5-methyl-2-(methylthio)-1-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



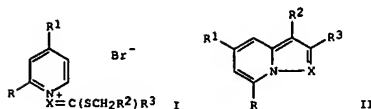
RN 119092-85-2 CAPLUS
CN 3-Indolizinecarboxylic acid, 7-methyl-2-(methylthio)-1-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



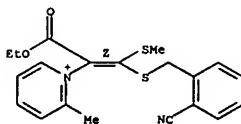
IT 119092-17-0P 119092-22-7P 119092-32-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of, by base, indolizine derivative from)
RN 119092-17-0 CAPLUS
CN Pyridinium, 1-[2-[[[4-cyanophenyl]methyl]thio]-1-(ethoxycarbonyl)-2-(methylthio)ethenyl]-2-methyl-, bromide, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

ACCESSION NUMBER: 1989:95084 CAPLUS
DOCUMENT NUMBER: 110:95084
TITLE: Preparation of new nitrogen-bridged heterocycles. 18. Facile formations of 3-arylpyrazolo[1,5-a]pyridines and 1-aryllindolizines
AUTHOR(S): Kakehi, Akikazu; Ito, Suketaka; Kinoshita, Naosumi; Abaka, Yukio
CORPORATE SOURCE: Fac. Eng., Shinshu Univ., Nagano, 380, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1988), 61(6), 2055-61
CODEN: BCSJAS; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 110:95084
GI



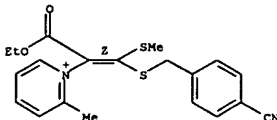
AB The base treatment of [(benzylthio)methyleneamino]pyridinium I (X = N; R, R1 = H, Me; R2 = Ph, substituted Ph, R3 = SMe, Ph, OEt, NEt2) and [(benzylthio)vinyl]pyridinium bromides I (X = CR4; R, R1 = H, Me; R2 = Ph, substituted Ph, R3 = SMe, R4 = CO2Et, cyano, COPh), possessing an electron-withdrawing substituent such as a nitro or cyano group in the presence or absence of a dehydrogenating agent afforded 3-arylpyrazolo[1,5-a]pyridines II (X = N) and 1-aryllindolizines II (X = CR4) resp. in moderate to good yields, while the reactions of the parent pyridinium salts and those having an electron-releasing group did not produce any significant products. The mode of the reaction, a ring contraction-desulfurization, is the same as that observed in related monocyclic species.
IT 119092-83-0P 119092-84-1P 119092-85-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and catalytic hydrogenation of, amino derivative from)
RN 119092-83-0 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-(methylthio)-1-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



● Br⁻

RN 119092-22-7 CAPLUS
CN Pyridinium, 1-[2-[[[4-cyanophenyl]methyl]thio]-1-(ethoxycarbonyl)-2-(methylthio)ethenyl]-2-methyl-, bromide, (Z)- (9CI) (CA INDEX NAME)

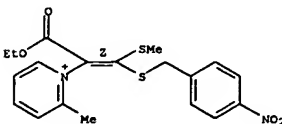
Double bond geometry as shown.



● Br⁻

RN 119092-32-9 CAPLUS
CN Pyridinium, 1-[1-(ethoxycarbonyl)-2-(methylthio)-2-[[[4-nitrophenyl]methyl]thio]ethenyl]-2-methyl-, bromide, (Z)- (9CI) (CA INDEX NAME)

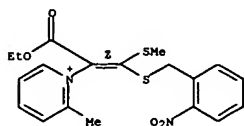
Double bond geometry as shown.



● Br⁻

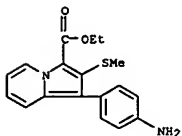
L15 ANSWER 34 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 IT 119092-61-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and cyclization of, by base, indolizine derivs. from)
 RN 119092-61-4 CAPLUS
 CN Pyridinium, 1-[(1-ethoxycarbonyl)-2-(methylthio)-2-[(2-nitrophenyl)methyl]thio]ethenyl]-2-methyl-, bromide, (Z)- (9CI) (CA
 INDEX NAME)

Double bond geometry as shown.



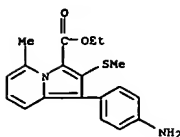
• Br⁻

IT 119092-51-2P 119092-52-3P 119092-53-4P
 119092-63-6P 119092-64-7P 119092-65-8P
 119092-67-0P 119092-68-1P 119092-69-2P
 119092-70-5P 119092-72-7P 119092-78-3P
 119092-79-4P 119092-80-7P 119092-82-9P
 119092-87-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 119092-51-2 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-(4-aminophenyl)-2-(methylthio)-, ethyl
 ester (9CI) (CA INDEX NAME)

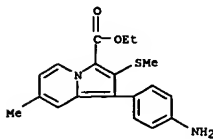


RN 119092-52-3 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-(4-aminophenyl)-5-methyl-2-(methylthio)-,
 ethyl ester (9CI) (CA INDEX NAME)

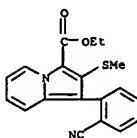
L15 ANSWER 34 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 119092-53-4 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-(4-aminophenyl)-7-methyl-2-(methylthio)-,
 ethyl ester (9CI) (CA INDEX NAME)

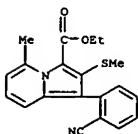


RN 119092-63-6 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-(2-cyanophenyl)-2-(methylthio)-, ethyl
 ester (9CI) (CA INDEX NAME)

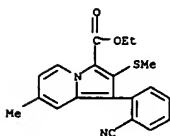


RN 119092-64-7 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-(2-cyanophenyl)-5-methyl-2-(methylthio)-,
 ethyl ester (9CI) (CA INDEX NAME)

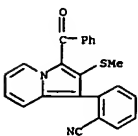
L15 ANSWER 34 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 119092-65-8 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-(2-cyanophenyl)-7-methyl-2-(methylthio)-,
 ethyl ester (9CI) (CA INDEX NAME)

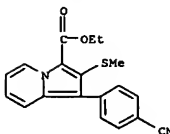


RN 119092-67-0 CAPLUS
 CN Benzonitrile, 2-[3-benzoyl-2-(methylthio)-1-indoliziny]- (9CI) (CA
 INDEX NAME)

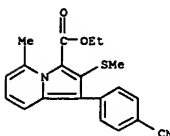


RN 119092-68-1 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-(4-cyanophenyl)-2-(methylthio)-, ethyl
 ester (9CI) (CA INDEX NAME)

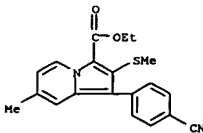
L15 ANSWER 34 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



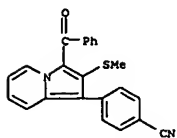
RN 119092-69-2 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-(4-cyanophenyl)-5-methyl-2-(methylthio)-,
 ethyl ester (9CI) (CA INDEX NAME)



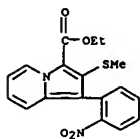
RN 119092-70-5 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-(4-cyanophenyl)-7-methyl-2-(methylthio)-,
 ethyl ester (9CI) (CA INDEX NAME)



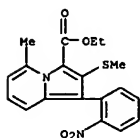
RN 119092-72-7 CAPLUS
 CN Benzonitrile, 4-[3-benzoyl-2-(methylthio)-1-indoliziny]- (9CI) (CA
 INDEX NAME)



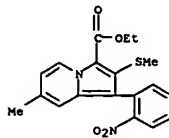
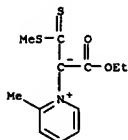
RN 119092-78-3 CAPLUS
CN 3-indolizinecarboxylic acid, 2-(methylthio)-1-(2-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



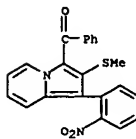
RN 119092-79-4 CAPLUS
CN 3-indolizinecarboxylic acid, 5-methyl-2-(methylthio)-1-(2-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



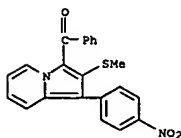
RN 119092-80-7 CAPLUS
CN 3-indolizinecarboxylic acid, 7-methyl-2-(methylthio)-1-(2-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 119092-82-9 CAPLUS
CN Methanone, [2-(methylthio)-1-(2-nitrophenyl)-3-indoliziny]phenyl- (9CI) (CA INDEX NAME)



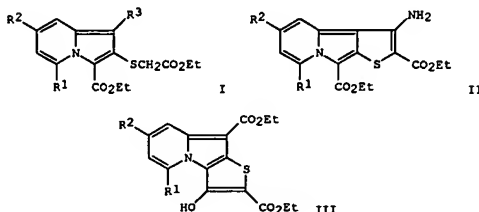
RN 119092-87-4 CAPLUS
CN Methanone, [2-(methylthio)-1-(4-nitrophenyl)-3-indoliziny]phenyl- (9CI) (CA INDEX NAME)



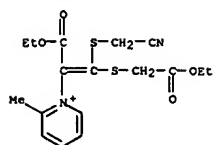
IT 74360-58-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(S-benzylation of)
RN 74360-58-0 CAPLUS
CN Pyridinium, 2-methyl-, 1-(ethoxycarbonyl)-2-(methylthio)-2-thioxoethylide (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 1988:150337 CAPLUS
DOCUMENT NUMBER: 108:150337
TITLE: Preparation of new nitrogen-bridged heterocycles.
17.

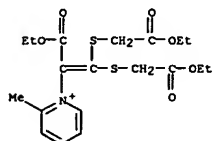
AUTHOR(S): Regiospecific formations of thieno[3,2-a]indolizine and thieno[2,3-b]indolizine derivatives
Kakehi, Akikazu; Ito, Suketaka; Matsumoto, Shinichi; Morimoto, Yuichiro
CORPORATE SOURCE: Fac. Eng., Shinshu Univ., Nagano, 380, Japan
SOURCE: Chemistry Letters (1987), (10), 2043-6
CODEN: CMLTAG; ISSN: 0366-7022
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 108:150337
GI



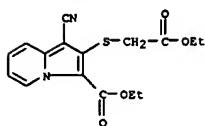
AB Indolizines I (R1, R2 = H, Me; R3 = cyano) were refluxed with DBU in EtOH to give thieno[3,2-a]indolizines II. Thieno[2,3-b]indolizines III (R1, R2 = H, Me) were obtained by treatment of the resp. I (R3 = CO2Et) with Me3COH/DMF
IT 113444-72-7
RL: PROC (Process)
(conversion of, to indolizinecarbonitrile derivative)
RN 113444-72-7 CAPLUS
CN Pyridinium, 1-[2-[(cyanomethyl)thio]-1-(ethoxycarbonyl)-2-[(2-ethoxy-2-oxoethyl)thio]ethenyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

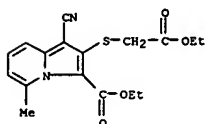
IT 113444-75-0
 RL: PROC (Process)
 (conversion of, to indolizinedicarboxylate ester)
 RN 113444-75-0 CAPLUS
 CN Pyridinium, 1-[1-(ethoxycarbonyl)-2,2-bis[(2-ethoxy-2-oxoethyl)thio]ethenyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

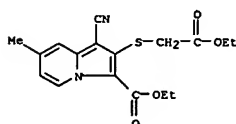
IT 113444-77-2P 113444-78-3P 113444-79-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and cycloaddn. reaction of, thienoindolizine derivative from)
 RN 113444-77-2 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-cyano-2-[(2-ethoxy-2-oxoethyl)thio]-, ethyl ester (9CI) (CA INDEX NAME)



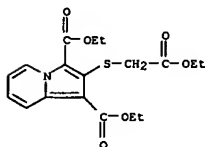
RN 113444-78-3 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-cyano-2-[(2-ethoxy-2-oxoethyl)thio]-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



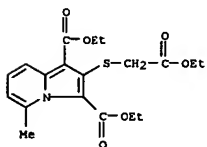
RN 113444-79-4 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-cyano-2-[(2-ethoxy-2-oxoethyl)thio]-7-methyl-, ethyl ester (9CI) (CA INDEX NAME)



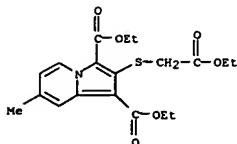
IT 113444-80-7P 113444-81-8P 113444-82-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclocondensation reaction of, thienoindolizine derivative from)
 RN 113444-80-7 CAPLUS
 CN 1,3-Indolizinedicarboxylic acid, 2-[(2-ethoxy-2-oxoethyl)thio]-, diethyl ester (9CI) (CA INDEX NAME)



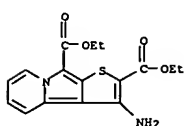
RN 113444-81-8 CAPLUS
 CN 1,3-Indolizinedicarboxylic acid, 2-[(2-ethoxy-2-oxoethyl)thio]-5-methyl-, diethyl ester (9CI) (CA INDEX NAME)



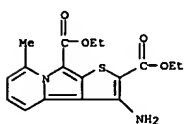
RN 113444-82-9 CAPLUS
 CN 1,3-Indolizinedicarboxylic acid, 2-[(2-ethoxy-2-oxoethyl)thio]-7-methyl-, diethyl ester (9CI) (CA INDEX NAME)



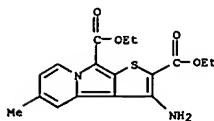
IT 113444-83-0P 113444-84-1P 113444-85-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 113444-83-0 CAPLUS
 CN Thieno[3,2-a]indolizine-2,9-dicarboxylic acid, 3-amino-, diethyl ester (9CI) (CA INDEX NAME)



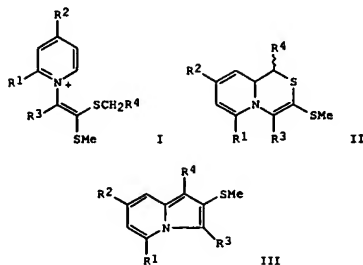
RN 113444-84-1 CAPLUS
 CN Thieno[3,2-a]indolizine-2,9-dicarboxylic acid, 3-amino-7-methyl-, diethyl ester (9CI) (CA INDEX NAME)



RN 113444-85-2 CAPLUS
 CN Thieno[3,2-a]indolizine-2,9-dicarboxylic acid, 3-amino-5-methyl-, diethyl ester (9CI) (CA INDEX NAME)

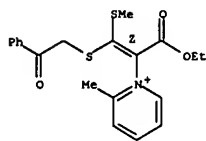


L15 ANSWER 36 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1988:75321 CAPLUS
 DOCUMENT NUMBER: 108:75321
 TITLE: Preparation of new nitrogen-bridged heterocycles.
 15.
 AUTHOR(S): Synthesis and reaction of 1,9a-dihydropyrido[2,1-c][1,4]thiazines
 Kakehi, Akikazu; Ito, Suketaka; Yonezu, Shingo;
 Maruta, Katsunori; Yuito, Kazuhiro; Shiohara, Morio;
 Adachi, Kyoko
 CORPORATE SOURCE: Fac. Eng., Shinshu Univ., Nagano, 380, Japan
 SOURCE: Bulletin of the Chemical Society of Japan (1987),
 60(5), 1867-79
 CODEN: BCSJAB; ISSN: 0009-2673
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 108:75321
 GI



AB Alkaline treatment of 1-[2-(substituted methylthio)vinyl]pyridinium
 bromides I
 (R1 = H, Me, R2 = H, Me, R3 = cyano, CO2Et, COPh, R4 = cyano, CO2Et,
 COPh,
 COC6H4R5-4; R5 = Cl, Br, Me, Ph) readily obtainable from the S-alkylation
 of pyridinium 1-(thiocarbonyl)methylides with various alkyl bromides such
 as bromoacetonitrile, Et bromoacetate, and some phenacyl bromides, gave
 smoothly 1,9a-dihydropyrido[2,1-c][1,4]thiazines II as isomeric mixts.
 II
 are very unstable and decomposed rapidly at ordinary temperature, but by
 treating
 them with a dehydrogenating agent such as lead tetraacetate or
 2,3-dichloro-5,6-dicyano-p-benzoquinone (DDQ) at 0°, the
 desulfurized and the rearranged aromatic indolizines III (R1 = H, R2 =
 H, Me,
 R3 = cyano, CO2Et, COPh; R4 = cyano, CO2Et, SBz, SCOC6H4R5; R5 = Cl, Br,
 Me, Ph) were formed in moderate to good yields.
 IT 112585-98-5P 112586-00-2P 112586-02-4P
 112586-04-6P

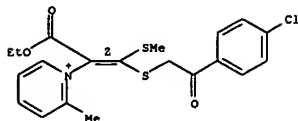
L15 ANSWER 36 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



• Br⁻

RN 112586-04-6 CAPLUS
 CN Pyridinium,
 1-[2-[(2-(4-chlorophenyl)-2-oxoethyl]thio]-1-(ethoxycarbonyl)-
 2-(methylthio)ethenyl]-2-methyl-, bromide, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

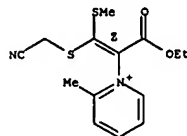


• Br⁻

IT 53687-83-5P 53754-14-6P 96492-84-1P
 112586-21-7P 112586-22-8P 112586-23-9P
 112586-24-0P 112586-25-1P 112586-36-4P
 112586-38-6P 112601-33-9P 112601-35-1P
 112601-37-3P 112601-39-5P 112601-40-8P
 112601-47-5P 112601-48-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 53687-83-5 CAPLUS
 CN 1-indolizinecarbonitrile, 3-benzoyl-2-(methylthio)- (9CI) (CA INDEX NAME)

L15 ANSWER 36 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. and cyclization of, dihydropyridothiazines from)
 RN 112585-98-5 CAPLUS
 CN Pyridinium, 1-[2-[(cyanomethyl)thio]-1-(ethoxycarbonyl)-2-
 (methylthio)ethenyl]-2-methyl-, bromide, (Z)- (9CI) (CA INDEX NAME)

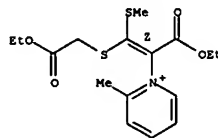
Double bond geometry as shown.



• Br⁻

RN 112586-00-2 CAPLUS
 CN Pyridinium, 1-[1-(ethoxycarbonyl)-2-[(2-ethoxy-2-oxoethyl)thio]-2-
 (methylthio)ethenyl]-2-methyl-, bromide, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



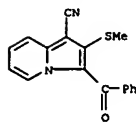
• Br⁻

RN 112586-02-4 CAPLUS
 CN Pyridinium, 1-[1-(ethoxycarbonyl)-2-(methylthio)-2-[(2-oxo-2-
 phenylethyl)thio]ethenyl]-2-methyl-, bromide, (Z)- (9CI) (CA INDEX NAME)

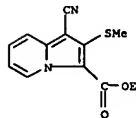
Double bond geometry as shown.



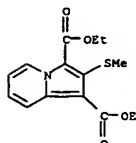
L15 ANSWER 36 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



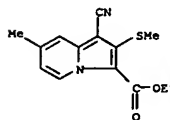
RN 53754-14-6 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-cyano-2-(methylthio)-, ethyl ester (9CI)
 (CA INDEX NAME)



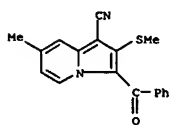
RN 96492-84-1 CAPLUS
 CN 1,3-Indolizinedicarboxylic acid, 2-(methylthio)-, diethyl ester (9CI)
 (CA INDEX NAME)



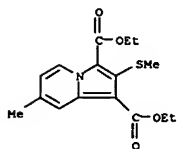
RN 112586-21-7 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-cyano-7-methyl-2-(methylthio)-, ethyl
 ester (9CI) (CA INDEX NAME)



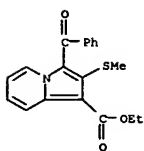
L15 ANSWER 36 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RN 112586-22-8 CAPLUS
 CN 1-Indolizinecarbonitrile, 3-benzoyl-7-methyl-2-(methylthio)- (9CI) (CA INDEX NAME)



RN 112586-23-9 CAPLUS
 CN 1,3-Indolizinedicarboxylic acid, 7-methyl-2-(methylthio)-, diethyl ester (9CI) (CA INDEX NAME)

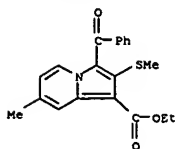


RN 112586-24-0 CAPLUS
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

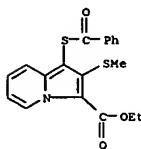


RN 112586-25-1 CAPLUS
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-7-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

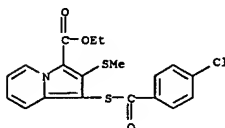
L15 ANSWER 36 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 112586-36-4 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-(benzoylthio)-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

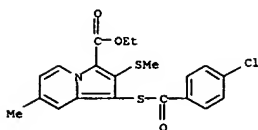


RN 112586-38-6 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-[(4-chlorobenzoyl)thio]-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

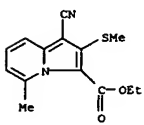


RN 112601-33-9 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-[(4-chlorobenzoyl)thio]-7-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

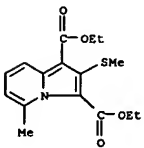
L15 ANSWER 36 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 112601-35-1 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-cyano-5-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

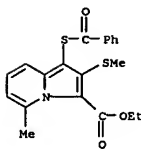


RN 112601-37-3 CAPLUS
 CN 1,3-Indolizinedicarboxylic acid, 5-methyl-2-(methylthio)-, diethyl ester (9CI) (CA INDEX NAME)

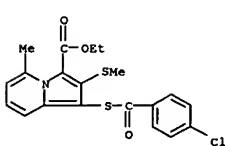


RN 112601-39-5 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-(benzoylthio)-5-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

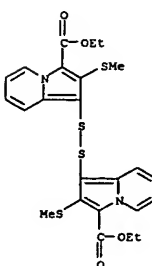
L15 ANSWER 36 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



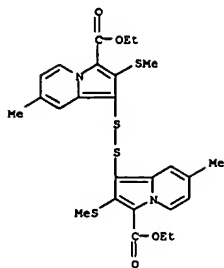
RN 112601-40-8 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-[(4-chlorobenzoyl)thio]-5-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



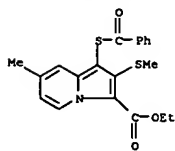
RN 112601-47-5 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1,1'-dithiobis[2-(methylthio)-], diethyl ester (9CI) (CA INDEX NAME)



RN 112601-48-6 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1,1'-dithiobis[7-methyl-2-(methylthio)-], diethyl ester (9CI) (CA INDEX NAME)

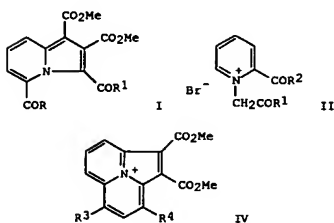


IT 112586-37-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with piperidine, disulfide from)
 RN 112586-37-5 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-(benzoylthio)-7-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

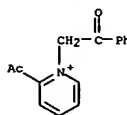
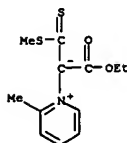


IT 74360-58-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (S-alkylation of)
 RN 74360-58-0 CAPLUS
 CN Pyridinium, 2-methyl-, 1-(ethoxycarbonyl)-2-(methylthio)-2-thioxoethylide (9CI) (CA INDEX NAME)

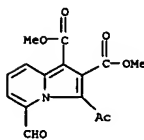
L15 ANSWER 37 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1987:213744 CAPLUS
 DOCUMENT NUMBER: 106:213744
 TITLE: A novel synthesis of pyrrolo[2,1,5-de]quinolizines (cycl[3.3.2]azinones)
 AUTHOR(S): Miki, Yasuyoshi; Kinoshita, Hisashi; Yoshimaru, Toshiko; Takemura, Shoji; Ikeda, Masazumi
 CORPORATE SOURCE: Fac. Pharm. Sci., Kinki Univ., Higashi-Osaka, 577, Japan
 SOURCE: Heterocycles (1987), 26(1), 199-204
 CODEN: HETCYAM; ISSN: 0385-5414
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 106:213744
 GI



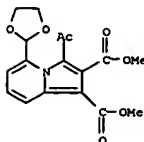
AB 3,5-Diacetylindolizines I (R = H, Me, Ph; R1 = Me, Ph) were prepared by [3 + 2] dipolar cycloaddn. of pyridinium salts II (R2 = Ph, Me, 1,3-dioxolanyl) and MeO2C-CO2Me. I were then cyclized with Al2O3 or K2CO3 to give the title compds. III in 38-64% overall yields. The NMR of III with CF3CO2D showed evidence for cyclazinium ions IV (R3 = OH, H, Ph; R4 = Ph, OH).
 IT 1026-29-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (deprotonation and cycloaddn. reaction of, with di-Me acetylenedicarboxylate)
 RN 1026-29-5 CAPLUS
 CN Pyridinium, 2-acetyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



IT 108325-85-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclization of, with alumina)
 RN 108325-85-5 CAPLUS
 CN 1,2-Indolizinedicarboxylic acid, 3-acetyl-5-formyl-, dimethyl ester (9CI) (CA INDEX NAME)

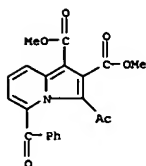


IT 108325-75-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and deprotection of, with hydrochloric acid)
 RN 108325-75-3 CAPLUS
 CN 1,2-Indolizinedicarboxylic acid, 3-acetyl-5-(1,3-dioxolan-2-yl)-, dimethyl ester (9CI) (CA INDEX NAME)

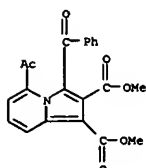


IT 108325-74-2P 108325-76-4P

L15 ANSWER 37 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. and intramol. cyclization of, with alumina and with potassium
 carbonate)
 RN 108325-74-2 CAPLUS
 CN 1,2-Indolizinedicarboxylic acid, 3-acetyl-5-benzoyl-, dimethyl ester
 (9CI)
 (CA INDEX NAME)

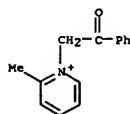


RN 108325-76-4 CAPLUS
 CN 1,2-Indolizinedicarboxylic acid, 5-acetyl-3-benzoyl-, dimethyl ester
 (9CI)
 (CA INDEX NAME)



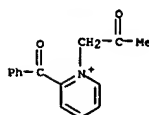
IT 108325-73-1, N-Acetonil-2-benzoylpyridinium bromide
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation deprotonation, and cycloaddn. reaction of, with di-Me
 acetylenedicarboxylate)
 RN 108325-73-1 CAPLUS
 CN Pyridinium, 2-benzoyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 38 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1986:590862 CAPLUS
 DOCUMENT NUMBER: 105:190862
 TITLE: Stereochemical study on 1,3-dipolar cycloaddition
 reactions of heteroaromatic N-ylides with
 symmetrical substituted cis and trans olefins
 Tsuge, Ochoiko; Kanemasa, Shuji; Takenaka, Shigeori
 Interdiscip. Grad. Sch. Eng. Sci., Kyushu Univ.,
 Kasuga, 816, Japan
 SOURCE: Bulletin of the Chemical Society of Japan (1985),
 58(11), 3137-57
 CODEN: BCSJAB; ISSN: 0009-2673
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 105:190862
 AB Stereochem. of the cycloaddns. of twenty-four heteroarom. N-ylides with
 sym. substituted cis and trans olefins has been investigated. Cyclic and
 acyclic cis olefins cycloadd to the anti form of the ylides in a highly
 endo-selective manner giving almost quant. yields of stereospecific endo
 3+2 cycloadducts. N-Ylides stabilized with a substituent of the carbonyl
 type react with trans olefins to form mostly 2 stereoisomeric 3+2
 cycloadducts to the anti form of the ylides. In most cases, they undergo
 stereospecific interconversion through a retro cycloaddn. process, the
 isomer ratios and the ease of transformation depending upon the nature
 and size of substituents on the 5-membered ring which has been built up in
 the cycloaddn. step. On the other hand, N-ylides stabilized with a
 substituent of noncarbonyl type react with trans olefins to give
 stereospecific and stereoselective 3+2 cycloadducts as single isomers
 which are assigned as the cycloadducts to the syn form of the ylides.
 IT 32896-98-3 51386-37-9
 RL: PROC (Process)
 (cycloaddn. of, with olefins, stereochem. of)
 RN 32896-98-3 CAPLUS
 CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX
 NAME)



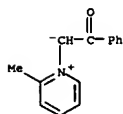
● Br⁻
 RN 51386-37-9 CAPLUS
 CN Pyridinium, 2-methyl-, 2-oxo-2-phenylethylide (9CI) (CA INDEX NAME)

L15 ANSWER 37 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



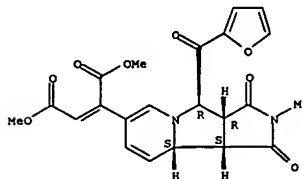
● Br⁻

L15 ANSWER 38 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



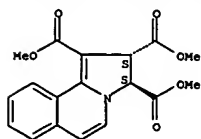
IT 104953-21-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and oxidation of)
 RN 104953-21-1 CAPLUS
 CN 2-Butenedioic acid, 2-[4-(2-furanylcabonyl)-2,3,3a,4,9a,9b-hexahydro-2-
 methyl-1,3-dioxo-1H-pyrrolo[3,4-a]indolizin-7-yl]-, dimethyl ester,
 (3aa,4a,9aa,9ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry unknown.



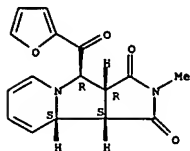
IT 37129-40-1P 88089-36-5P 88089-37-6P
 88089-38-7P 88089-39-8P 88089-40-1P
 88121-62-4P 88121-63-5P 90625-67-5P
 90625-68-6P 90625-69-7P 90625-70-0P
 90625-71-1P 90625-72-2P 90625-73-3P
 90625-74-4P 90650-46-7P 90650-47-8P
 97204-08-5P 97204-09-6P 97204-10-9P
 97204-11-0P 97204-12-1P 97215-41-7P
 97275-42-8P 97275-43-9P 97275-44-0P
 104932-92-5P 104953-17-5P 104953-20-0P
 104953-22-2P 104953-25-5P 104953-27-7P
 104953-28-8P 104953-29-9P 105017-14-9P
 105017-15-0P 105017-17-2P 105017-18-3P
 105017-19-4P 105017-20-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 37129-40-1 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-1,2,3-tricarboxylic acid, 2,3-dihydro-,
 trimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



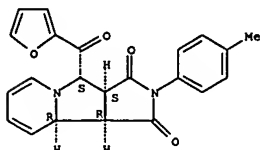
RN 88089-36-5 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-(2-furanylcarbonyl)-3a,4,9a,9b-tetrahydro-2-methyl-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



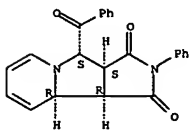
RN 88089-37-6 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-(2-furanylcarbonyl)-3a,4,9a,9b-tetrahydro-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



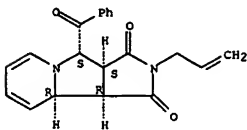
RN 88089-38-7 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-2-methyl-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



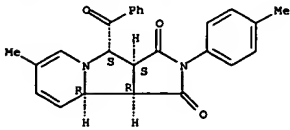
RN 88121-63-5 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-2-(2-propenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



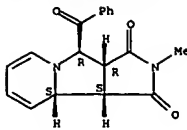
RN 90625-67-5 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-7-methyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



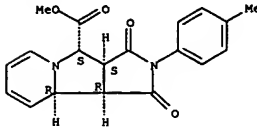
RN 90625-68-6 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-9-methyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



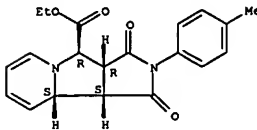
RN 88089-39-8 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-4-carboxylic acid, 2,3,3a,4,9a,9b-hexahydro-2-(4-methylphenyl)-1,3-dioxo-, methyl ester, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



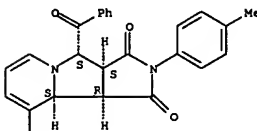
RN 88089-40-1 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-4-carboxylic acid, 2,3,3a,4,9a,9b-hexahydro-2-(4-methylphenyl)-1,3-dioxo-, ethyl ester, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



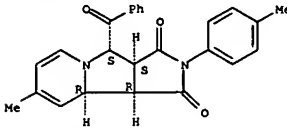
RN 88121-62-4 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-2-phenyl-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



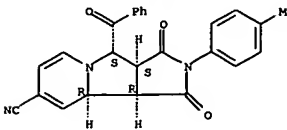
RN 90625-69-7 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-8-methyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



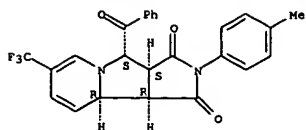
RN 90625-70-0 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-8-carbonitrile, 4-benzoyl-2,3,3a,4,9a,9b-hexahydro-2-(4-methylphenyl)-1,3-dioxo-, (3aa,4a,9aa,9ba)-alpha.-(9CI) (CA INDEX NAME)

Relative stereochemistry.



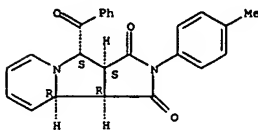
RN 90625-71-1 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-2-(4-methylphenyl)-7-(trifluoromethyl)-, (3aa,4a,9aa,9ba)-alpha.-(9CI) (CA INDEX NAME)

Relative stereochemistry.



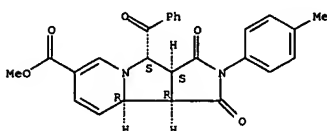
RN 90625-72-2 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione,
4-benzoyl-3a,4,9,9b-tetrahydro-
2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)- (9CI) (CA
INDEX NAME)

Relative stereochemistry.



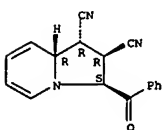
RN 90625-73-3 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-7-carboxylic acid, 4-benzoyl-2,3,3a,4,9a,9b-
hexahydro-2-(4-methylphenyl)-1,3-dioxo-, methyl ester,
(3aa,4a,9aa,9ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



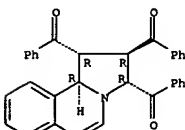
RN 90625-74-4 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-9-carboxylic acid, 4-benzoyl-2,3,3a,4,9a,9b-
hexahydro-2-(4-methylphenyl)-1,3-dioxo-, methyl ester,
(3aa,4a,9aa,9ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

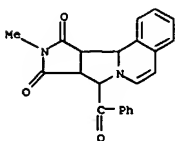


RN 97204-09-6 CAPLUS
CN Methanone, (1,2,3,10b-tetrahydropyrrolo[2,1-a]isoquinoline-1,2,3-
trityl)tris(phenyl)-, (1a,2β,3a,10ba)- (9CI) (CA
INDEX NAME)

Relative stereochemistry.

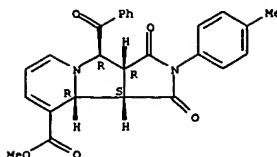


RN 97204-10-9 CAPLUS
CN 8H-Pyrrolo[3',4':3,4]pyrrolo[2,1-a]isoquinoline-9,11(8aH,10H)-dione,
8-benzoyl-11a,11b-dihydro-10-methyl-, (8a,8aa,11aa,11b.a
1pha.)- (9CI) (CA INDEX NAME)



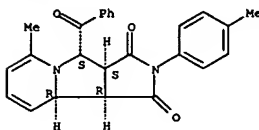
RN 97204-11-0 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-benzoyl-1,2,3,10b-
tetrahydro-, dimethyl ester, (1a,2β,3β,10bβ)- (9CI)
(CA INDEX NAME)

Relative stereochemistry.



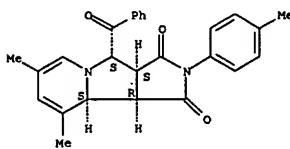
RN 90650-46-7 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione,
4-benzoyl-3a,4,9a,9b-tetrahydro-
6-methyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-
(9CI) (CA INDEX NAME)

Relative stereochemistry.



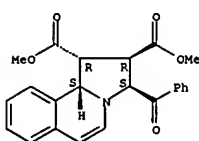
RN 90650-47-8 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione,
4-benzoyl-3a,4,9a,9b-tetrahydro-
7,9-dimethyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-
(9CI) (CA INDEX NAME)

Relative stereochemistry.



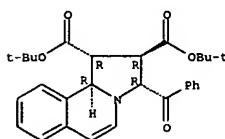
RN 97204-08-5 CAPLUS
CN 1,2-Indolizinedicarbonitrile, 3-benzoyl-1,2,3,8a-tetrahydro-,
(1a,2β,3β,8aβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



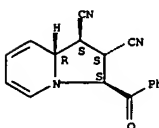
RN 97204-12-1 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-benzoyl-1,2,3,10b-
tetrahydro-, bis(1,1-dimethylethyl) ester, (1a,2β,3a,10b.
alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



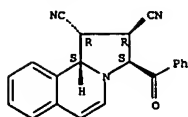
RN 97275-41-7 CAPLUS
CN 1,2-Indolizinedicarbonitrile, 3-benzoyl-1,2,3,8a-tetrahydro-,
(1a,2β,3a,8aa)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



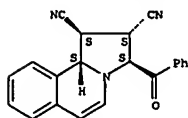
RN 97275-42-8 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarbonitrile, 3-benzoyl-1,2,3,10b-
tetrahydro-, (1a,2β,3β,10bβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



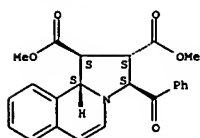
RN 97275-43-9 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarbonitrile, 3-benzoyl-1,2,3,10b-tetrahydro-, (1a,2β,3a,10ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

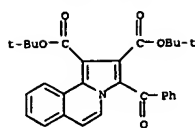


RN 97275-44-0 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-benzoyl-1,2,3,10b-tetrahydro-, dimethyl ester, (1a,2β,3a,10ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

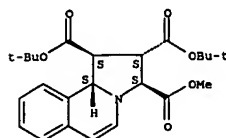


RN 104932-92-5 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-benzoyl-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



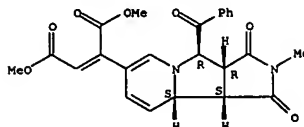
RN 104953-17-5 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2,3-tricarboxylic acid, 1,2,3,10b-tetrahydro-, 1,2-bis(1,1-dimethylethyl) 3-methyl ester, (1a,2β,3a,10ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

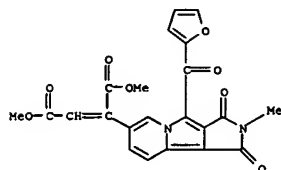


RN 104953-20-0 CAPLUS
CN 2-Butenedioic acid, 2-(4-benzoyl-2,3,3a,4,9a,9b-hexahydro-2-methyl-1,3-dioxo-1H-pyrrolo[3,4-a]indolizin-7-yl)-, dimethyl ester, (3aa,4a,9aa,9ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.

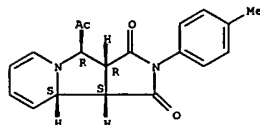


RN 104953-22-2 CAPLUS
CN 2-Butenedioic acid, 2-[4-(2-furanylcarbonyl)-2,3-dihydro-2-methyl-1,3-dioxo-1H-pyrrolo[3,4-a]indolizin-7-yl]-, dimethyl ester (9CI) (CA INDEX NAME)



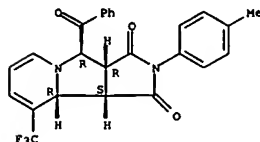
RN 104953-25-5 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-acetyl-3a,4,9a,9b-tetrahydro-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

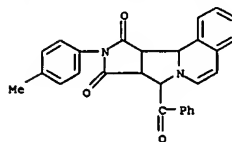


RN 104953-27-7 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-2-(4-methylphenyl)-9-(trifluoromethyl)-, (3aa,4a,9aa,9b.alpha.)- (9CI) (CA INDEX NAME)

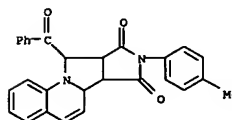
Relative stereochemistry.



RN 104953-28-8 CAPLUS
CN 8H-Pyrrolo[3',4':3,4]pyrrolo[2,1-a]isoquinoline-9,11(8aH,10H)-dione, 8-benzoyl-11a,11b-dihydro-10-(4-methylphenyl)-, (8a,8aa,11aa,11ba)- (9CI) (CA INDEX NAME)

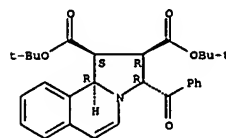


RN 104953-29-9 CAPLUS
CN 7H-Pyrrolo[3',4':3,4]pyrrolo[1,2-a]isoquinoline-7,9(8H)-dione, 10-benzoyl-6a,6b,9a,10-tetrahydro-8-(4-methylphenyl)-, (6aa,6ba,9aa,10a)- (9CI) (CA INDEX NAME)



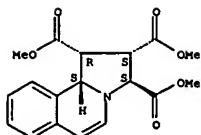
RN 105017-14-9 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-benzoyl-1,2,3,10b-tetrahydro-, bis(1,1-dimethylethyl) ester, (1a,2a,3β,10b.beta.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



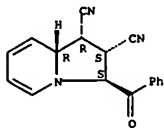
RN 105017-15-0 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2,3-tricarboxylic acid, 1,2,3,10b-tetrahydro-, trimethyl ester, (1a,2a,3β,10bβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



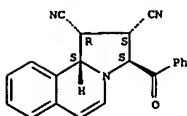
RN 105017-17-2 CAPLUS
CN 1,2-indolizinedicarbonitrile, 3-benzoyl-1,2,3,8a-tetrahydro-, (1a,2a,3b,8aβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

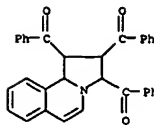


RN 105017-18-3 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarbonitrile, 3-benzoyl-1,2,3,10b-tetrahydro-, (1a,2a,3b,10bβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

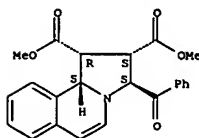


RN 105017-19-4 CAPLUS
CN Methanone, (1,2,3,10b-tetrahydropyrrolo[2,1-a]isoquinoline-1,2,3-triyl)tris(phenyl)- (9CI) (CA INDEX NAME)

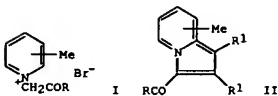


RN 105017-20-7 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-benzoyl-1,2,3,10b-tetrahydro-, dimethyl ester, (1a,2a,3b,10bβ)- (9CI) (CA INDEX NAME)

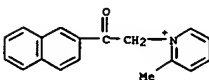
Relative stereochemistry.



L15 ANSWER 39 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1985:541813 CAPLUS
DOCUMENT NUMBER: 103:141813
TITLE: A synthetic approach toward the synthesis of indolizines via 1,3-dipolar cycloaddition reactions of cycloammonium ylide
AUTHOR(S): Tewari, Ram S.; Bajpai, Anita
CORPORATE SOURCE: Dep. Chem., H. B. Technol. Inst., Kanpur, 208 002, India
SOURCE: Journal of Chemical and Engineering Data (1985), 30(4), 505-7
CODEN: JCEAAX; ISSN: 0021-9568
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 103:141813
GI

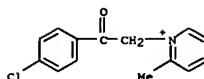


AB Dehydrobromination of picolinium bromides I (R = 4-ClC6H4, thienyl, 2-naphthyl, Me group at 2- and 4-position) with Et3N gave the highly reactive cycloammonium ylides, cycloaddn. of which with R1O2CC.tplbond.CCO2R1 (R1 = Me, Et) gave indolizines II.
IT 6276-80-8P 82746-43-8P 96826-74-3P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and cycloaddn. of, with acetylenedicarboxylate)
RN 6276-80-8 CAPLUS
CN Pyridinium, 2-methyl-1-[2-(2-naphthalenyl)-2-oxoethyl]-, bromide (9CI) (CA INDEX NAME)



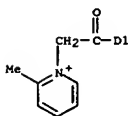
● Br⁻

RN 82746-43-8 CAPLUS
CN Pyridinium, 1-[2-(4-chlorophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)



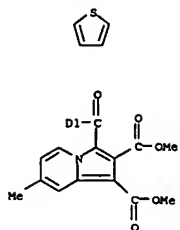
● Br⁻

RN 96826-74-3 CAPLUS
CN Pyridinium, 2-methyl-1-[2-oxo-2-(thienyl)ethyl]-, bromide (9CI) (CA INDEX NAME)

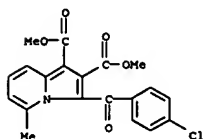


● Br⁻

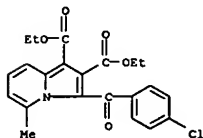
IT 96826-76-5P 96844-93-8P 96844-94-9P
96844-95-0P 96844-96-1P 96844-97-2P
96844-98-3P 96844-99-4P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
RN 96826-76-5 CAPLUS
CN 1,2-indolizinedicarboxylic acid, 7-methyl-3-(thienylcarbonyl)-, dimethyl ester (9CI) (CA INDEX NAME)



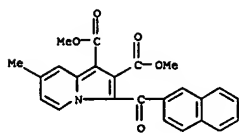
RN 96844-93-8 CAPLUS
CN 1,2-Indolizinedicarboxylic acid, 3-(4-chlorobenzoyl)-5-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



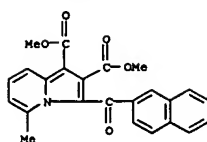
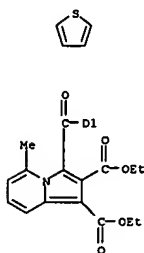
RN 96844-94-9 CAPLUS
CN 1,2-Indolizinedicarboxylic acid, 3-(4-chlorobenzoyl)-5-methyl-, diethyl ester (9CI) (CA INDEX NAME)



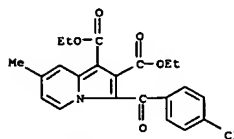
RN 96844-95-0 CAPLUS
CN 1,2-Indolizinedicarboxylic acid, 5-methyl-3-(2-naphthalenylcarbonyl)-, dimethyl ester (9CI) (CA INDEX NAME)



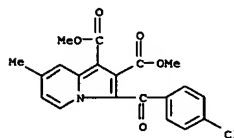
RN 96844-99-4 CAPLUS
CN 1,2-Indolizinedicarboxylic acid, 5-methyl-3-(thienylcarbonyl)-, diethyl ester (9CI) (CA INDEX NAME)



RN 96844-96-1 CAPLUS
CN 1,2-Indolizinedicarboxylic acid, 3-(4-chlorobenzoyl)-7-methyl-, diethyl ester (9CI) (CA INDEX NAME)

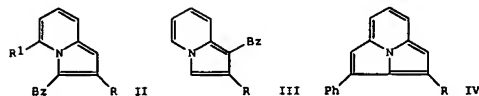


RN 96844-97-2 CAPLUS
CN 1,2-Indolizinedicarboxylic acid, 3-(4-chlorobenzoyl)-7-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



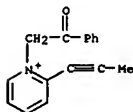
RN 96844-98-3 CAPLUS
CN 1,2-Indolizinedicarboxylic acid, 7-methyl-3-(2-naphthalenylcarbonyl)-, dimethyl ester (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 1985:184953 CAPLUS
DOCUMENT NUMBER: 102:184953
TITLE: Thermal intramolecular cyclization of 2-ethynylpyridine N-ylides to indolizines and cyclazines
AUTHOR(S): Tsuchiya, Takashi; Kato, Masanobu; Sashida, Haruki
CORPORATE SOURCE: Sch. Pharm., Hokuriku Univ., Kanazawa, 920, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1984), 32(11), 4666-9
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 102:184953
GI



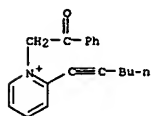
AB Treatment of 2-alkynyl-1-phenacylpyridinium bromides I, prepared from 2-alkynylpyridines and PhCOCH₂Br, with a base in refluxing C₆H₆ gave 3-benzoylindolizines II (R = Me, Bu, Ph; R₁H), whereas heating I in refluxing HOAc afforded 1-benzoylindolizines III. Upon similar treatment with base, 2-alkynyl-6-methyl-1-phenacylpyridinium bromides gave 2-phenylcyl[3.2.2]azines IV together with III (R₁ = Me). However, the reaction of 6-amino-2-alkynylpyridines with PhCOCH₂Br resulted in the formation of 1-aza-indolizines, which were treated with base to give 1-azacycl[3.2.2]azines. Mechanisms for these intramol. cyclization via pyridine N-ylide intermediates are discussed.

IT 96206-84-7P 96206-85-8P 96206-86-9P
96206-87-0P 96206-88-1P 96206-89-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with base)
RN 96206-84-7 CAPLUS
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(1-propynyl)-, bromide (9CI) (CA INDEX NAME)



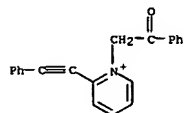
L15 ANSWER 40 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 96206-85-8 CAPLUS
CN Pyridinium, 2-(1-hexynyl)-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

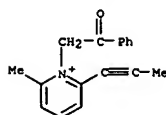
RN 96206-86-9 CAPLUS
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(phenylethynyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

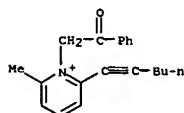
RN 96206-87-0 CAPLUS
CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-6-(1-propynyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 40 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



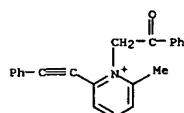
● Br⁻

RN 96206-88-1 CAPLUS
CN Pyridinium, 2-(1-hexynyl)-6-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 96206-89-2 CAPLUS
CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-6-(phenylethynyl)-, bromide (9CI) (CA INDEX NAME)

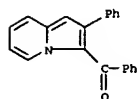


● Br⁻

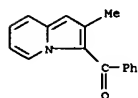
IT 14759-45-6P 36944-82-8P 96206-93-8P
96206-96-1P 96206-97-2P 96206-98-3P
RL: SPN (Synthetic preparation); PREP (Preparation)

L15 ANSWER 40 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
(prepn. of)

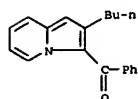
RN 14759-45-6 CAPLUS
CN Methanone, phenyl(2-phenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



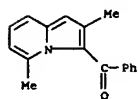
RN 36944-82-8 CAPLUS
CN Methanone, (2-methyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



RN 96206-93-8 CAPLUS
CN Methanone, (2-butyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)

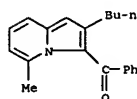


RN 96206-96-1 CAPLUS
CN Methanone, (2,5-dimethyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)

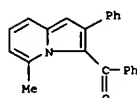


RN 96206-97-2 CAPLUS
CN Methanone, (2-butyl-5-methyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)

L15 ANSWER 40 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

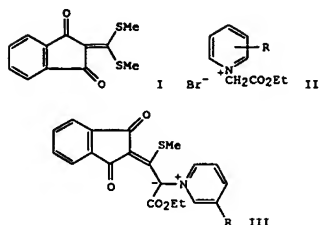


RN 96206-98-3 CAPLUS
CN Methanone, (5-methyl-2-phenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



L15 ANSWER 41 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

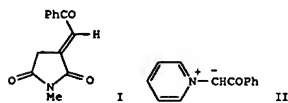
ACCESSION NUMBER: 1985:6390 CAPLUS
DOCUMENT NUMBER: 102:6390
TITLE: Reaction of 2-[(bis(methylthio)methylene)indan-1,3-dione with N-ylides and S-ylides
AUTHOR(S): Tominaga, Yoshinori; Morisue, Hajime; Matsuda, Yoshiro; Kobayashi, Goro
CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, 852, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1984), 32(8), 2910-14
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 102:6390
GI



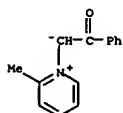
AB The reaction of the title compound (I) with pyridinium N-ylides II (R = H, 3-Me, 2-Me, 2-NH₂) gave the corresponding stable pyridinium N-allylides III (R = H, Me), 2-(2-indanyl)indolizine, and 3-(2-indanylidene)methylimidazo[1,2-a]pyridine in good yields. A fused thiazine 2-oxide, 2-methyl-4-methylthio-5-oxo-5H-indeno[1,2-c]thiapyran 2-oxide, was synthesized by the reaction of I with trimethylsulfoxonium iodide under similar conditions. An azathiabenzene oxide, 2-methyl-4-methylthio-5-oxo-5H-indeno[2,1-d][1,2]thiazine 2-oxide was also synthesized from 2-(1-dimethylsulfoximino-1-methylthio)methyleneindan-1,3-dione, which was prepared from I and sulfoximine.
IT 93700-20-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 93700-20-0 CAPLUS
CN 3-indolizinecarboxylic acid, 2-(2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-, ethyl ester (9CI) (CA INDEX NAME)

L15 ANSWER 42 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1984:423286 CAPLUS
DOCUMENT NUMBER: 101:23286
TITLE: Stereoselective hydroalkylation of olefins with pyridinium methylides
AUTHOR(S): Tsuge, Otohiko; Kanemasa, Shuji; Takenaka, Shigeori; Kuraoka, Satoru
CORPORATE SOURCE: Grad. Sch. Eng. Sci., Kyushu Univ., Kasuga, 816, Japan
SOURCE: Chemistry Letters (1984), (3), 465-8
CODEN: CMLTAG; ISSN: 0366-7022
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 101:23286
GI



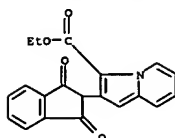
AB Acid-catalyzed elimination of pyridine from the stereoselective [3+2] cycloadducts between electron-deficient olefins and pyridinium methylides with ylide-stabilizing substituents was carried out. Thus, the pyrrolidine I was prepared in 86% yield by treating the pyridinium phenacylide II with N-methylmaleimide.
IT 51386-37-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(cycloaddn. reaction of, with tolylmaleimide)
RN 51386-37-9 CAPLUS
CN Pyridinium, 2-methyl-, 2-oxo-2-phenylethylide (9CI) (CA INDEX NAME)



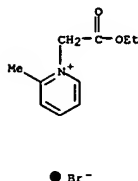
IT 90625-67-5P 90625-68-6P 90625-69-7P
90650-46-7P 90650-47-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and elimination reaction of)
RN 90625-67-5 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-7-methyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.

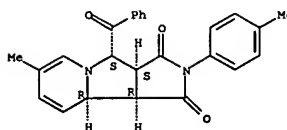
L15 ANSWER 41 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IT 55814-02-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with bis(methylthio)methyleneindandione)
RN 55814-02-3 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)

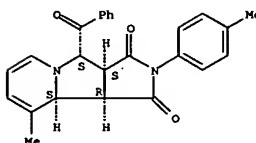


L15 ANSWER 42 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



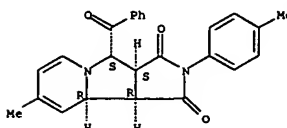
RN 90625-68-6 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-9-methyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



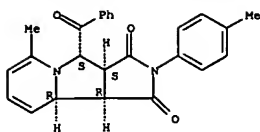
RN 90625-69-7 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-8-methyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



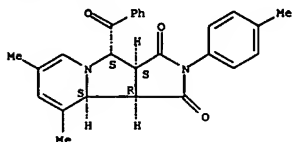
RN 90650-46-7 CAPLUS
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-6-methyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



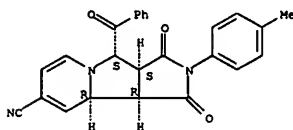
RN 90650-47-8 CAPLUS
 CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione,
 4-benzoyl-3a,4,9a,9b-tetrahydro-
 7,9-dimethyl-2-(4-methylphenyl)-, (3aα,4α,9aα,9bα)-
 (9CI) (CA INDEX NAME)

Relative stereochemistry.

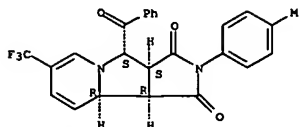
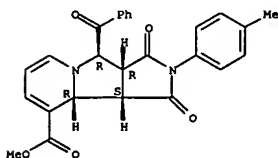


IT 90625-70-0P 90625-71-1P 90625-72-2P
 90625-73-3P 90625-74-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 90625-70-0 CAPLUS
 CN 1H-Pyrrolo[3,4-a]indolizine-9-carbonitrile, 4-benzoyl-2,3,3a,4,9a,9b-
 hexahydro-2-(4-methylphenyl)-1,3-dioxo-, (3aα,4α,9aα,9bα)-
 alpha.)-(9CI) (CA INDEX NAME)

Relative stereochemistry.

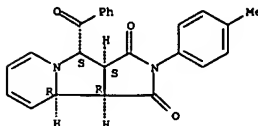


RN 90625-71-1 CAPLUS
 CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione,
 4-benzoyl-3a,4,9a,9b-tetrahydro-
 2-(4-methylphenyl)-7-(trifluoromethyl)-, (3aα,4α,9aα,9bα)-
 alpha.)-(9CI) (CA INDEX NAME)



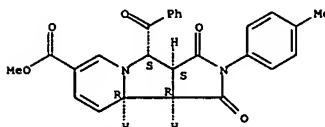
RN 90625-72-2 CAPLUS
 CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione,
 4-benzoyl-3a,4,9,9b-tetrahydro-
 2-(4-methylphenyl)-, (3aα,4α,9aα,9bα)- (9CI) (CA
 INDEX NAME)

Relative stereochemistry.



RN 90625-73-3 CAPLUS
 CN 1H-Pyrrolo[3,4-a]indolizine-9-carboxylic acid, 4-benzoyl-2,3,3a,4,9a,9b-
 hexahydro-2-(4-methylphenyl)-1,3-dioxo-, methyl ester,
 (3aα,4α,9aα,9bα)- (9CI) (CA INDEX NAME)

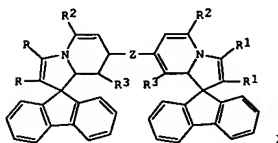
Relative stereochemistry.



RN 90625-74-4 CAPLUS
 CN 1H-Pyrrolo[3,4-a]indolizine-9-carboxylic acid, 4-benzoyl-2,3,3a,4,9a,9b-
 hexahydro-2-(4-methylphenyl)-1,3-dioxo-, methyl ester,
 (3aα,4α,9aα,9bα)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L15 ANSWER 43 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1984:148421 CAPLUS
 DOCUMENT NUMBER: 100:148421
 TITLE: Photochrome systems according to size: first
 spiro-1,8a-dihydroindolizine bichromophores
 Spang, Peter; Duerst, Heinz
 Univ. Saarbruecken, Saarbruecken, D-6600, Fed. Rep.
 Ger.
 SOURCE: Angewandte Chemie (1984), 96(3), 227-9
 CODEN: ANCEAD; ISSN: 0044-8249
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI

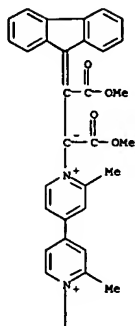


AB The preparation and spectral properties of spiro-1, 8a-dihydroindolizine
 bichromophores of the formula I (R,R1 = Ac, MeO2C; R2,R3 = H, Me; Z =
 (CH2)2, CH=CH, or a bond) are described. These compds., which are
 prepared

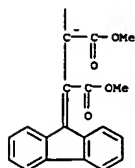
by reaction of a spirocyclopropane with a bipyridine, a
 4,4'-ethylenebipyridine, or a 4,4'-vinylenebipyridine, have potential
 applications in optical image and data recording, the energy conversion
 of

sunlight, and the like.
 IT 88969-24-8P 88969-29-3P
 RL: PREP (Preparation)
 (formation and spectral properties of, photochromism in relation to)
 RN 88969-24-8 CAPLUS
 CN 4,4'-Bipyridinium, 2,2'-dimethyl-,
 bis[2-(9H-fluoren-9-ylidene)-3-methoxy-
 1-(methoxycarbonyl)-3-oxopropylidene] (9CI) (CA INDEX NAME)

PAGE 1-A

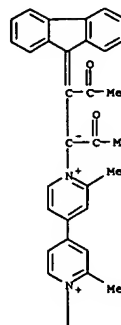


PAGE 2-A

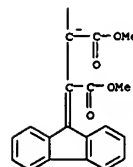


RN 88969-29-3 CAPLUS
CN 4,4'-Bipyridinium, 2,2'-dimethyl-, 1-acetyl-2-(9H-fluoren-9-ylidene)-3-oxobutylide 2-(9H-fluoren-9-ylidene)-3-methoxy-1-(methoxycarbonyl)-3-oxopropylide (9CI) (CA INDEX NAME)

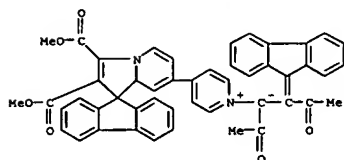
PAGE 1-A



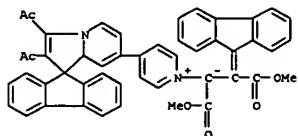
PAGE 2-A



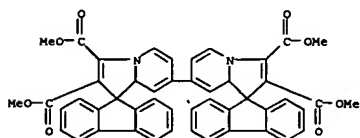
IT 88981-06-0P 88981-07-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and photolysis of)
RN 88981-06-0 CAPLUS
CN Pyridinium, 4-[2',3'-bis(methoxycarbonyl)spiro{9H-fluorene-9,1'(8'aH)-indolizin}-7'-yl]-, 1-acetyl-2-(9H-fluoren-9-ylidene)-3-oxobutylide (9CI) (CA INDEX NAME)



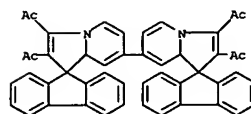
RN 88981-07-1 CAPLUS
CN Pyridinium, 4-(2',3'-diacetylspiro{9H-fluorene-9,1'(8'aH)-indolizin}-7'-yl)-, 2-(9H-fluoren-9-ylidene)-3-methoxy-1-(methoxycarbonyl)-3-oxopropylide (9CI) (CA INDEX NAME)



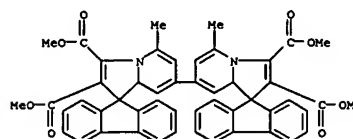
IT 88980-97-6P 88980-98-7P 88980-99-8P
88981-00-4P 88981-01-5P 88981-02-6P
88981-03-7P 88981-04-8P 88981-05-9P
RL: PRP (Properties); PREP (Preparation)
(preparation and spectral properties of, photochromism in relation to)
RN 88980-97-6 CAPLUS
CN [7',7'''-Bispiro{9H-fluorene-9,1'(8'aH)-indolizin}-2',2''',3',3'''-tetracarboxylic acid, tetramethyl ester (9CI) (CA INDEX NAME)



RN 88980-98-7 CAPLUS
CN Ethanone, 1,1',1'',1'''-[7',7'''-bispiro{9H-fluorene-9,1'(8'aH)-indolizin}-2',2''',3',3'''-tetrayltetrakis- (9CI) (CA INDEX NAME)



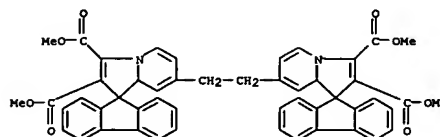
RN 88980-99-8 CAPLUS
CN [7',7'''-Bispiro{9H-fluorene-9,1'(8'aH)-indolizin}-2',2''',3',3'''-tetracarboxylic acid, 5',5'''-dimethyl-, tetramethyl ester (9CI) (CA INDEX NAME)



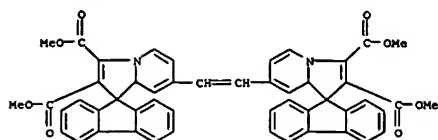
RN 88981-00-4 CAPLUS
CN [7',7'''-Bispiro{9H-fluorene-9,1'(8'aH)-indolizin}-2',2''',3',3'''-tetracarboxylic acid, 8',8'''-dimethyl-, tetramethyl ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

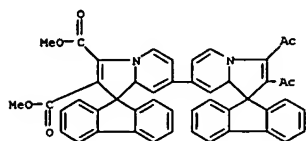
RN 88981-01-5 CAPLUS
CN Spiro{9H-fluorene-9,1'(8'aH)-indolizin}-2',3'-dicarboxylic acid, 7',7'''-(1,2-ethenediyl)bis-, tetramethyl ester (9CI) (CA INDEX NAME)



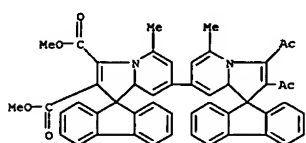
RN 88981-02-6 CAPLUS
CN Spiro{9H-fluorene-9,1'(8'aH)-indolizin}-2',3'-dicarboxylic acid, 7',7'''-(1,2-ethenediyl)bis-, tetramethyl ester (9CI) (CA INDEX NAME)



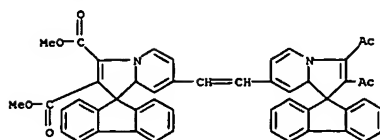
RN 88981-03-7 CAPLUS
CN [7',7'''-Bispiro[9H-fluorene-9,1'(8'aH)-indolizine]]-2',3'-dicarboxylic acid, 2''',3'''-diacetyl-, dimethyl ester (9CI) (CA INDEX NAME)



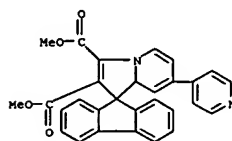
RN 88981-04-8 CAPLUS
CN [7',7'''-Bispiro[9H-fluorene-9,1'(8'aH)-indolizine]]-2',3'-dicarboxylic acid, 2''',3'''-diacetyl-5',5'''-dimethyl-, dimethyl ester (9CI) (CA INDEX NAME)



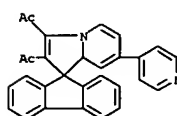
RN 88981-05-9 CAPLUS
CN Spiro[9H-fluorene-9,1'(8'aH)-indolizine]-2',3'-dicarboxylic acid, 7'-[2-(2',3'-diacetylspiro[9H-fluorene-9,1'(8'aH)-indolizine]-7'-yl)ethenyl]-, dimethyl ester (9CI) (CA INDEX NAME)



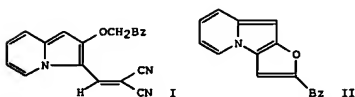
IT 88980-95-4 88980-96-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with spirocyclopropene)
RN 88980-95-4 CAPLUS
CN Spiro[9H-fluorene-9,1'(8'aH)-indolizine]-2',3'-dicarboxylic acid, 7'-(4-pyridinyl)-, dimethyl ester (9CI) (CA INDEX NAME)



RN 88980-96-5 CAPLUS
CN Ethanone, 1,1'-[7'-(4-pyridinyl)spiro[9H-fluorene-9,1'(8'aH)-indolizine]-2',3'-diyl]bis-, dimethyl ester (9CI) (CA INDEX NAME)

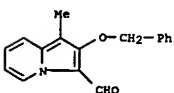


ACCESSION NUMBER: 1983:505143 CAPLUS
DOCUMENT NUMBER: 99:105143
TITLE: Preparation of new nitrogen-bridged heterocycles. 6. First synthesis of 2-arylfuro[2,3-b]indolizine derivatives
AUTHOR(S): Kakehi, Akikazu; Ito, Suketaka; Ohizumi, Tsuyoshi; Ito, Masayoshi
CORPORATE SOURCE: Fac. Eng., Shinshu Univ., Nagano, 380, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1983), 56(4), 1219-22
CODEN: BCSJAB; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

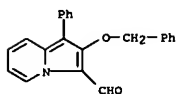


AB Alkaline treatment of 2-(arylmethoxy)-3-(2,2-dicyanovinyl)indolizine deriva., readily available from the step-by-step reactions of 1-(ethoxycarbonylmethyl)-2-picolinium salts with a base, (ethoxymethylene)malononitrile followed by some phenacyl bromides in EtOH, afforded smoothly the title compds. in good yields. E.g., treating indolizine I with aqueous KOH gave 97% furoindolizine II. These furoindolizines could be also obtained directly from the pyridinium salts without the isolation of intermediate 3-vinylindolizines. Formation mechanisms and some phys. properties of these furoindolizines are also discussed.

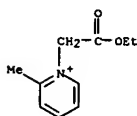
IT 86842-94-6P 86842-95-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 86842-94-6 CAPLUS
CN 3-Indolizinecarboxaldehyde, 1-methyl-2-(phenylmethoxy)- (9CI) (CA INDEX NAME)



RN 86842-95-7 CAPLUS
CN 3-Indolizinecarboxaldehyde, 1-phenyl-2-(phenylmethoxy)- (9CI) (CA INDEX NAME)

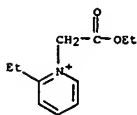


IT 58963-28-3 70257-97-5 74360-64-8
84919-62-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (ethoxymethylene)malononitrile and phenacyl bromide)
RN 58963-28-3 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)



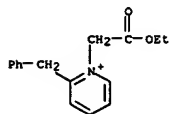
● Cl⁻

RN 70257-97-5 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-ethyl-, bromide (9CI) (CA INDEX NAME)

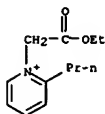


● Br⁻

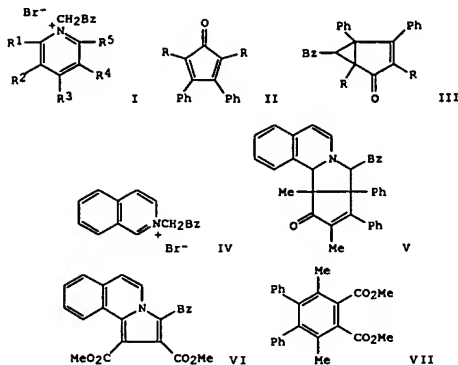
RN 74360-64-8 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br⁻

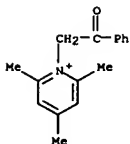
RN 84919-62-0 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-propyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

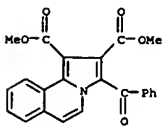
L15 ANSWER 45 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1983:453200 CAPLUS
DOCUMENT NUMBER: 99:53200
TITLE: Reaction of pyridinium phenacylides and related ylides
AUTHOR(S): with cyclopentadienone derivatives
CORPORATE SOURCE: Yamashita, Yoshiro; Miyauchi, Yukio; Masumura, Mitsuo
SOURCE: Fac. Eng., Tokushima Univ., Tokushima, 770, Japan
Chemistry Letters (1983), (4), 489-92
CODEN: CHLTAG; ISSN: 0366-7022
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 99:53200
GI



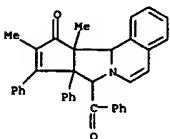
AB The nucleophilic addition reaction of I (R1-R5 = H; R1 = R2 = R4 = R5 = H, R3 = Me; R1 = R3 = R5 = H, Me, R2 = R4 = H, Me; R1 = R3 = R4 = R5 = H, R2 = CN) with II (R = Me, Et, Ph) to give III was studied. Refluxing IV with II (R = Me) and K2CO3 in MeCN gave V which on reaction with MeOCC.tpbond.CCO2Me gave VI and VII.
IT 86551-94-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(addition reaction of, with cyclopentadienones)
RN 86551-94-2 CAPLUS
CN Pyridinium, 2,4,6-trimethyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

● Br⁻

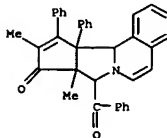
IT 17281-89-9P 86552-01-4P 86552-02-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 17281-89-9 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-benzoyl-, dimethyl ester (8CI, 9CI) (CA INDEX NAME)



RN 86552-01-4 CAPLUS
CN 11H-Cyclopenta[3,4]pyrrolo[2,1-a]isoquinolin-11-one, 8-benzoyl-8,8a,11a,11b-tetrahydro-10,11a-dimethyl-8a,9-diphenyl- (9CI) (CA INDEX NAME)



RN 86552-02-5 CAPLUS
CN 9H-Cyclopenta[3,4]pyrrolo[2,1-a]isoquinolin-9-one, 8-benzoyl-8,8a,11a,11b-tetrahydro-8a,10-dimethyl-11,11a-diphenyl- (9CI) (CA INDEX NAME)



ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:

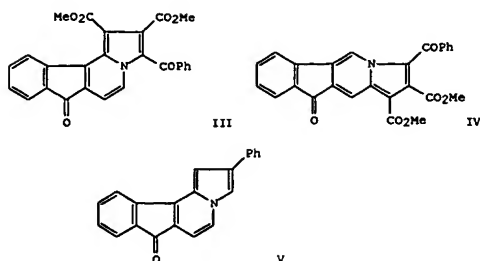
1983:215441 CAPLUS

AUTHOR(S):

CORPORATE SOURCE:
SOURCE:

Reduction of quaternary salts of 3-azafluorene and 3-azafluorenone and their conversions into indenoindolizines
Prostakov, N. S.; Soldatenkov, A. T.; Radzhan, P. K.; Samalov, A.; Zakharov, V. F.; Zvolinskii, V. P.
Univ. Druzhby Nar. im. Lomonosova, Moscow, 117923, USSR
Kimiya Geterotsiklicheskih Soedinenii (1983), (2), 252-5
CODEN: KGSSAQ; ISSN: 0453-8234
Journal
Russian
CASREACT 98:215441

DOCUMENT TYPE:
LANGUAGE:
OTHER SOURCE(S):
GI



AB 3-Azafluorene was oxidized to the 9-oxo derivative (I) and converted into the phenacyl quaternary salt (II) cyclization of which with MeO2CC.tplbond.CCO2Me gave III and IV; I was also oxidized to the N-oxide and nitrated to the 7-NO2 derivative Cyclization of the 4-Me analog of II gave V.
IT 85826-48-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 85826-48-8 CAPLUS
CN 5H-Indeno[1,2-c]pyridinium, 1-methyl-5-oxo-2-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:

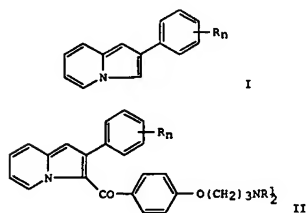
1983:89112 CAPLUS

AUTHOR(S):

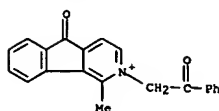
CORPORATE SOURCE:
Belg.
SOURCE:

2-Aryl-3-(4-dialkylaminopropoxybenzoyl)indolizines with antiangia properties
Roussels, G.; Pelren, M.; Henaux, F.; Prost, M.; Descamps, M.; Tornay, C.; Richard, J.; Bauthier, J.; Colot, M.; De Claviere, M.
Cent. Rech. Bruxelles, SANOFI, Brussels, B 1120, Journal
CODEN: APFRAD; ISSN: 0003-4509
French
CASREACT 98:89112

DOCUMENT TYPE:
LANGUAGE:
OTHER SOURCE(S):
GI

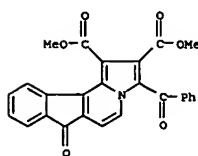


AB Indolizines I (Rn = H, F, Cl, Br, Me, 3,4-Cl2, 3,4-ClMe) were converted to benzoylindolizines II (R1 = Cl-4 alkyl), useful in the treatment of angina pectoris (no data). I (Rn = H) was acylated by 4-(4-MeC6H4SO3)C6H4COCl, the product was detosylated, and subsequent etherification with Br(CH2)3Br and treatment with Me2NH gave II (Rn = H, R1 = Me).
IT 366-61-0 32896-98-3 82746-41-6
82746-42-7 82746-43-8 82746-47-2
84626-98-2 84626-99-3 84642-89-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation of)
RN 366-61-0 CAPLUS
CN Pyridinium, 1-[2-(4-fluorophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

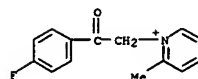
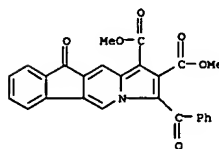
IT 82672-00-2P 82672-01-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 82672-00-2 CAPLUS
CN 7H-Indeno[2,1-g]indolizine-1,3-dicarboxylic acid, 3-benzoyl-7-oxo-, dimethyl ester (9CI) (CA INDEX NAME)



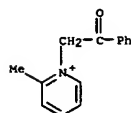
RN 82672-01-3 CAPLUS

CN 10H-Indeno[1,2-f]indolizine-1,2-dicarboxylic acid, 3-benzoyl-10-oxo-, dimethyl ester (9CI) (CA INDEX NAME)

● Br⁻

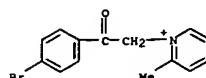
RN 32896-98-3 CAPLUS

CN Pyridinium, 2-methyl-1-[2-(4-bromophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

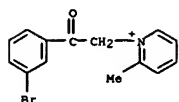
RN 82746-41-6 CAPLUS

CN Pyridinium, 1-[2-(4-bromophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)

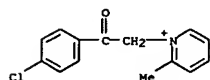
● Br⁻

RN 82746-42-7 CAPLUS

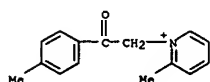
CN Pyridinium, 1-[2-(3-bromophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

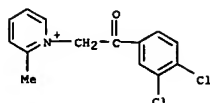
RN 82746-43-8 CAPLUS
CN Pyridinium, 1-[2-(4-chlorophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI)
(CA INDEX NAME)

● Br⁻

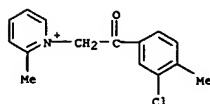
RN 82746-47-2 CAPLUS
CN Pyridinium, 2-methyl-1-[2-(4-methylphenyl)-2-oxoethyl]-, bromide (9CI)
(CA INDEX NAME)

● Br⁻

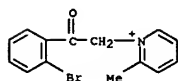
RN 84626-98-2 CAPLUS
CN Pyridinium, 1-[2-(3,4-dichlorophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI)
(CA INDEX NAME)

● Br⁻

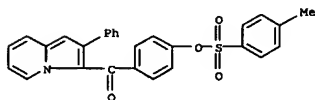
RN 84626-99-3 CAPLUS
CN Pyridinium, 1-[2-(3-chloro-4-methylphenyl)-2-oxoethyl]-2-methyl-, bromide (9CI)
(CA INDEX NAME)

● Br⁻

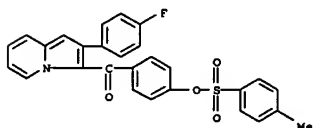
RN 84642-89-7 CAPLUS
CN Pyridinium, 1-[2-(2-bromophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI)
(CA INDEX NAME)

● Br⁻

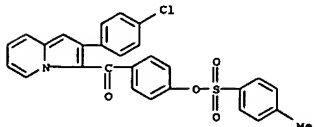
IT 64676-33-1P 64676-34-2P 64676-35-3P
64676-36-4P 64676-38-6P 64676-39-7P
64676-40-0P 64676-41-1P 64676-42-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
[preparation and detosylation of]
RN 64676-33-1 CAPLUS
CN Methanone, [4-[[4-(4-methylphenyl)sulfonyl]oxy]phenyl] (2-phenyl-3-



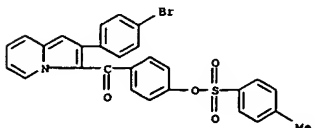
RN 64676-34-2 CAPLUS
CN Methanone, [2-(4-fluorophenyl)-3-indolizinyll[4-[[4-(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI)
(CA INDEX NAME)



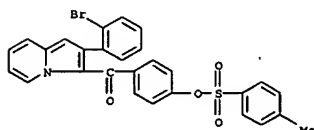
RN 64676-35-3 CAPLUS
CN Methanone, [2-(4-chlorophenyl)-3-indolizinyll[4-[[4-(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI)
(CA INDEX NAME)



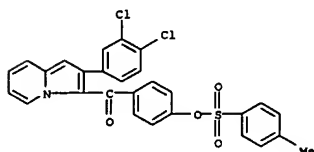
RN 64676-36-4 CAPLUS
CN Methanone, [2-(4-bromophenyl)-3-indolizinyll[4-[[4-(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI)
(CA INDEX NAME)



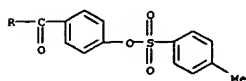
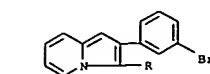
RN 64676-38-6 CAPLUS
CN Methanone, [2-(2-bromophenyl)-3-indolizinyll[4-[[4-(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI)
(CA INDEX NAME)



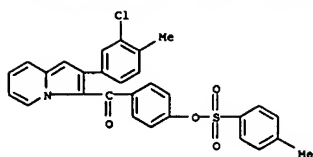
RN 64676-39-7 CAPLUS
CN Methanone, [2-(3,4-dichlorophenyl)-3-indolizinyll[4-[[4-(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI)
(CA INDEX NAME)



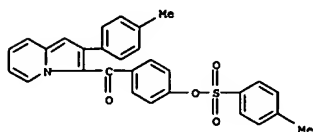
RN 64676-40-0 CAPLUS
CN Methanone, [2-(3-bromophenyl)-3-indolizinyll[4-[[4-(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI)
(CA INDEX NAME)



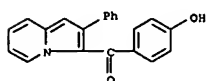
RN 64676-41-1 CAPLUS
CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indolizinyll[4-[[4-(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI)
(CA INDEX NAME)



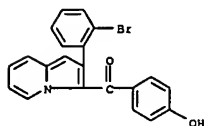
RN 64676-42-2 CAPLUS
CN Methanone, [2-(4-methylphenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



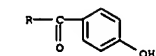
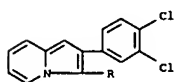
IT 64676-43-3P 64676-44-4P 64676-45-5P
64676-46-6P 64676-48-8P 64676-49-9P
64676-50-2P 64676-51-3P 64676-52-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
of preparation and O-alkylation of, by dibromopropane, and substitution
product with dialkylamines)
RN 64676-43-3 CAPLUS
CN Methanone, (4-hydroxyphenyl) (2-phenyl-3-indolizinyloxyphenyl)- (9CI) (CA INDEX NAME)



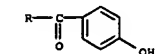
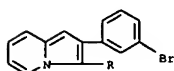
RN 64676-44-4 CAPLUS
CN Methanone, [2-(4-fluorophenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



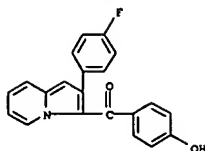
RN 64676-49-9 CAPLUS
CN Methanone, [2-(3,4-dichlorophenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



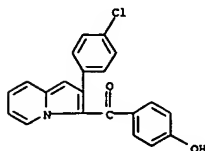
RN 64676-50-2 CAPLUS
CN Methanone, [2-(3-bromophenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



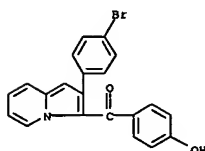
RN 64676-51-3 CAPLUS
CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



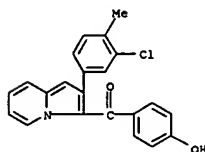
RN 64676-45-5 CAPLUS
CN Methanone, [2-(4-chlorophenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



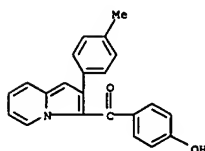
RN 64676-46-6 CAPLUS
CN Methanone, [2-(4-bromophenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



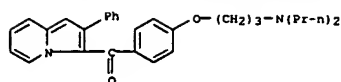
RN 64676-48-8 CAPLUS
CN Methanone, [2-(2-bromophenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



RN 64676-52-4 CAPLUS
CN Methanone, (4-hydroxyphenyl) [2-(4-methylphenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



IT 84626-69-7P 84626-70-0P 84626-71-1P
84626-72-2P 84626-73-3P 84626-74-4P
84626-75-5P 84626-76-6P 84626-77-7P
84626-78-8P 84626-79-9P 84626-80-2P
84626-81-3P 84626-82-4P 84626-83-5P
84626-84-6P 84626-85-7P 84626-86-8P
84626-87-9P 84626-88-0P 84626-89-1P
84626-90-4P 84626-91-5P 84626-92-6P
84626-93-7P 84626-94-8P 84626-95-9P
84626-96-0P 84626-97-1P 84627-00-9P
84627-01-0P 84627-02-1P 84627-03-2P
84642-86-4P 84642-87-5P 84642-88-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 84626-69-7 CAPLUS
CN Methanone, [4-(3-(dipropylamino)propoxy)phenyl] (2-phenyl-3-indolizinyloxyphenyl)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)
CM 1
CRN 64676-56-8
CHF C30 H34 N2 O2

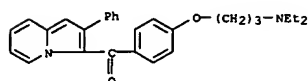


CM 2

CRN 144-62-7
CMF C2 H2 O4

RN 84626-70-0 CAPLUS
CN Methanone, [4-{3-(diethylamino)propoxy}phenyl][2-phenyl-3-indolizinyloxy]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

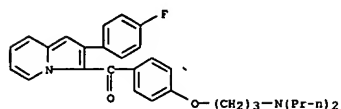
CRN 64704-60-5
CMF C28 H30 N2 O2

CM 2

CRN 144-62-7
CMF C2 H2 O4

RN 84626-71-1 CAPLUS
CN Methanone, [4-{3-(dimethylamino)propoxy}phenyl][2-phenyl-3-indolizinyloxy]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

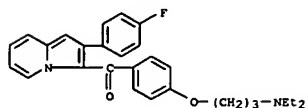
CRN 64676-58-0
CMF C26 H26 N2 O2

CM 2

CRN 144-62-7
CMF C2 H2 O4

RN 84626-74-4 CAPLUS
CN Methanone, [4-{3-(diethylamino)propoxy}phenyl][2-(4-fluorophenyl)-3-indolizinyloxy]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

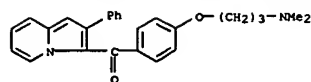
CM 1

CRN 64676-64-8
CMF C28 H29 F N2 O2

CM 2

CRN 144-62-7
CMF C2 H2 O4

RN 84626-75-5 CAPLUS
CN Methanone, [2-(4-chlorophenyl)-3-indolizinyloxy][4-{3-(dibutylamino)propoxy}phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

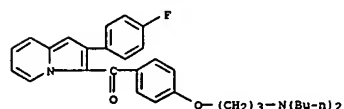


CM 2

CRN 144-62-7
CMF C2 H2 O4

RN 84626-72-2 CAPLUS
CN Methanone, [4-{3-(dibutylamino)propoxy}phenyl][2-(4-fluorophenyl)-3-indolizinyloxy]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-60-4
CMF C32 H37 F N2 O2

CM 2

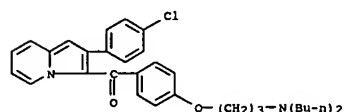
CRN 144-62-7
CMF C2 H2 O4

RN 84626-73-3 CAPLUS
CN Methanone, [4-{3-(dipropylamino)propoxy}phenyl][2-(4-fluorophenyl)-3-indolizinyloxy]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-62-6

CM 1

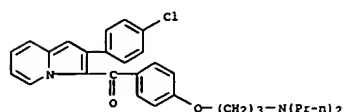
CRN 64676-68-2
CMF C32 H37 Cl N2 O2

CM 2

CRN 144-62-7
CMF C2 H2 O4

RN 84626-76-6 CAPLUS
CN Methanone, [2-(4-chlorophenyl)-3-indolizinyloxy][4-{3-(dipropylamino)propoxy}phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-70-6
CMF C30 H33 Cl N2 O2

CM 2

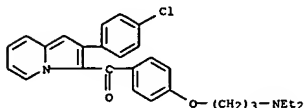
CRN 144-62-7
CMF C2 H2 O4



RN 84626-77-7 CAPLUS
CN Methanone, [2-(4-chlorophenyl)-3-indoliziny] [4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-72-8
CMF C28 H29 Cl N2 O2



CM 2

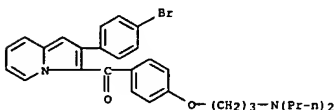
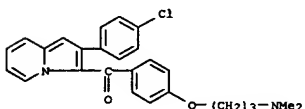
CRN 144-62-7
CMF C2 H2 O4



RN 84626-78-8 CAPLUS
CN Methanone, [2-(4-chlorophenyl)-3-indoliziny] [4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-74-0
CMF C26 H25 Cl N2 O2



CM 2

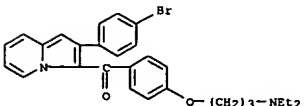
CRN 144-62-7
CMF C2 H2 O4



RN 84626-81-3 CAPLUS
CN Methanone, [2-(4-bromophenyl)-3-indoliziny] [4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-80-8
CMF C28 H29 Br N2 O2



CM 2

CRN 144-62-7
CMF C2 H2 O4



RN 84626-82-4 CAPLUS
CN Methanone, [2-(4-bromophenyl)-3-indoliziny] [4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 2

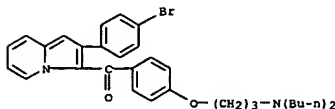
CRN 144-62-7
CMF C2 H2 O4



RN 84626-79-9 CAPLUS
CN Methanone, [2-(4-bromophenyl)-3-indoliziny] [4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-76-2
CMF C32 H37 Br N2 O2



CM 2

CRN 144-62-7
CMF C2 H2 O4



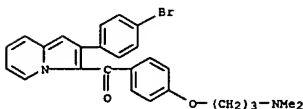
RN 84626-80-2 CAPLUS
CN Methanone, [2-(4-bromophenyl)-3-indoliziny] [4-[3-(dipropylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-78-4
CMF C30 H33 Br N2 O2

CM 1

CRN 64676-82-0
CMF C26 H25 Br N2 O2



CM 2

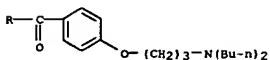
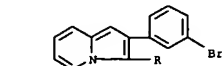
CRN 144-62-7
CMF C2 H2 O4



RN 84626-83-5 CAPLUS
CN Methanone, [2-(3-bromophenyl)-3-indoliziny] [4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64677-08-3
CMF C32 H37 Br N2 O2



CM 2

CRN 144-62-7
CMF C2 H2 O4

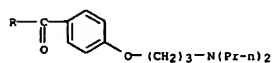
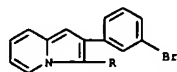


RN 84626-84-6 CAPLUS
CN Methanone, [2-(3-bromophenyl)-3-indoliziny][4-[3-(dipropylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64677-10-7

CMF C30 H33 Br N2 O2



CM 2

CRN 144-62-7

CMF C2 H2 O4



RN 84626-85-7 CAPLUS
CN Methanone, [2-(3-bromophenyl)-3-indoliziny][4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64677-12-9

CMF C28 H29 Br N2 O2

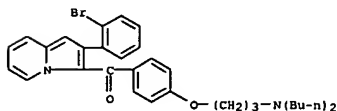


RN 84626-87-9 CAPLUS
CN Methanone, [2-(2-bromophenyl)-3-indoliziny][4-[3-(dibutylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-92-2

CMF C32 H37 Br N2 O2



CM 2

CRN 144-62-7

CMF C2 H2 O4

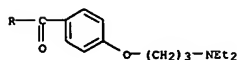
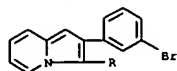
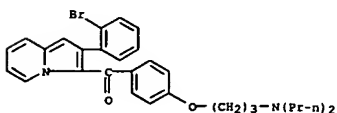


RN 84626-88-0 CAPLUS
CN Methanone, [2-(2-bromophenyl)-3-indoliziny][4-[3-(dipropylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-94-4

CMF C30 H33 Br N2 O2



CM 2

CRN 144-62-7

CMF C2 H2 O4

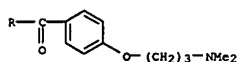
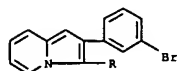


RN 84626-86-8 CAPLUS
CN Methanone, [2-(3-bromophenyl)-3-indoliziny][4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64677-14-1

CMF C26 H25 Br N2 O2



CM 2

CRN 144-62-7

CMF C2 H2 O4

CM 2

CRN 144-62-7

CMF C2 H2 O4

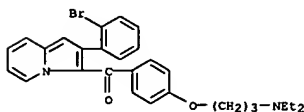


RN 84626-89-1 CAPLUS
CN Methanone, [2-(2-bromophenyl)-3-indoliziny][4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-96-6

CMF C28 H29 Br N2 O2



CM 2

CRN 144-62-7

CMF C2 H2 O4

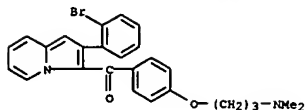


RN 84626-90-4 CAPLUS
CN Methanone, [2-(2-bromophenyl)-3-indoliziny][4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-98-8

CMF C26 H25 Br N2 O2

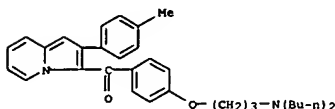


CM 2

CRN 144-62-7
CMF C2 H2 O4

RN 84626-91-5 CAPLUS
CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl][2-(4-methylphenyl)-3-indoliziny]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64677-24-3
CMF C33 H40 N2 O2

CM 2

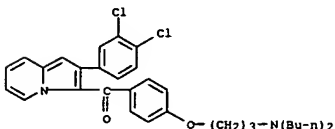
CRN 144-62-7
CMF C2 H2 O4

RN 84626-92-6 CAPLUS
CN Methanone, [4-[3-(diisopropylamino)propoxy]phenyl][2-(4-methylphenyl)-3-indoliziny]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

L15 ANSWER 47 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl][2-(3,4-dichlorophenyl)-3-indoliziny]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

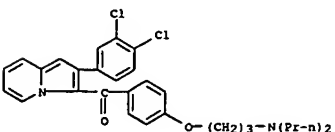
CRN 64677-00-5
CMF C32 H36 Cl2 N2 O2

CM 2

CRN 144-62-7
CMF C2 H2 O4

RN 84626-95-9 CAPLUS
CN Methanone, [2-(3,4-dichlorophenyl)-3-indoliziny][4-[3-(diisopropylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

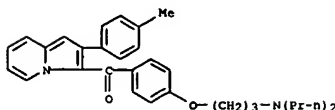
CM 1

CRN 64677-02-7
CMF C30 H32 Cl2 N2 O2

CM 2

CRN 144-62-7
CMF C2 H2 O4

CRN 64677-26-5
CMF C31 H36 N2 O2

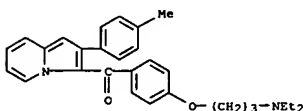


CM 2

CRN 144-62-7
CMF C2 H2 O4

RN 84626-93-7 CAPLUS
CN Methanone, [4-[3-(diethylamino)propoxy]phenyl][2-(4-methylphenyl)-3-indoliziny]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64677-28-7
CMF C29 H32 N2 O2

CM 2

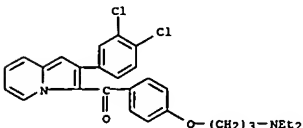
CRN 144-62-7
CMF C2 H2 O4

RN 84626-94-8 CAPLUS



RN 84626-96-0 CAPLUS
CN Methanone, [2-(3,4-dichlorophenyl)-3-indoliziny][4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

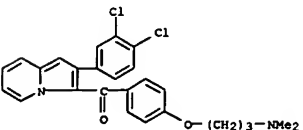
CRN 64677-04-9
CMF C28 H28 Cl2 N2 O2

CM 2

CRN 144-62-7
CMF C2 H2 O4

RN 84626-97-1 CAPLUS
CN Methanone, [2-(3,4-dichlorophenyl)-3-indoliziny][4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64677-06-1
CMF C26 H24 Cl2 N2 O2

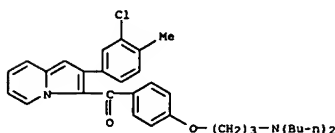
L15 ANSWER 47 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CH 2
CRN 144-62-7
CMF C2 H2 O4



RN 84627-00-9 CAPLUS
CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indolizinyll][4-(3-(dibutylamino)propoxy)phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CH 1
CRN 64677-16-3
CMF C33 H39 Cl N2 O2



CH 2
CRN 144-62-7
CMF C2 H2 O4

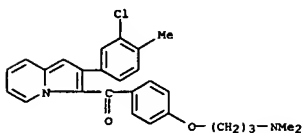


RN 84627-01-0 CAPLUS
CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indolizinyll][4-(3-(dipropylamino)propoxy)phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CH 1
CRN 64677-18-5
CMF C31 H35 Cl N2 O2

L15 ANSWER 47 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CH 1
CRN 64677-22-1
CMF C27 H27 Cl N2 O2

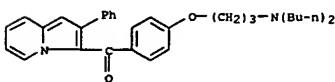


CH 2
CRN 144-62-7
CMF C2 H2 O4



RN 84642-86-4 CAPLUS
CN Methanone, [4-(3-(dibutylamino)propoxy)phenyl][2-phenyl-3-indolizinyll]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

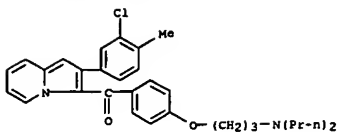
CH 1
CRN 64676-54-6
CMF C32 H38 N2 O2



CH 2
CRN 144-62-7
CMF C2 H2 O4



L15 ANSWER 47 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

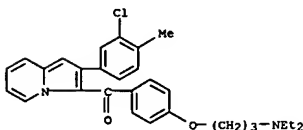


CH 2
CRN 144-62-7
CMF C2 H2 O4



RN 84627-02-1 CAPLUS
CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indolizinyll][4-(3-(diethylamino)propoxy)phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CH 1
CRN 64677-20-9
CMF C29 H31 Cl N2 O2



CH 2
CRN 144-62-7
CMF C2 H2 O4

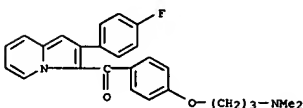


RN 84627-03-2 CAPLUS
CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indolizinyll][4-(3-(dimethylamino)propoxy)phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

L15 ANSWER 47 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 84642-87-5 CAPLUS
CN Methanone, [4-(3-(dimethylamino)propoxy)phenyl][2-(4-fluorophenyl)-3-indolizinyll]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CH 1
CRN 64676-66-0
CMF C26 H25 F N2 O2

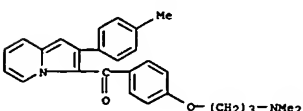


CH 2
CRN 144-62-7
CMF C2 H2 O4



RN 84642-88-6 CAPLUS
CN Methanone, [4-(3-(dimethylamino)propoxy)phenyl][2-(4-methylphenyl)-3-indolizinyll]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

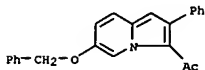
CH 1
CRN 64677-30-1
CMF C27 H28 N2 O2



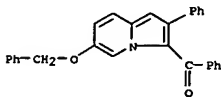
CH 2
CRN 144-62-7
CMF C2 H2 O4



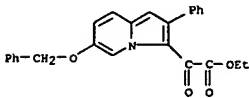
L15 ANSWER 48 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 84269-85-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and hydrogenolysis of)
 RN 84269-82-9 CAPLUS
 CN Ethanone, 1-[2-phenyl-6-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)



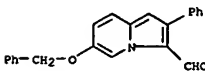
RN 84269-83-0 CAPLUS
 CN Methanone, phenyl[2-phenyl-6-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)



RN 84269-84-1 CAPLUS
 CN 3-Indolizineacetic acid, α-oxo-2-phenyl-6-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)

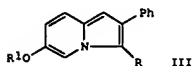


RN 84269-85-2 CAPLUS
 CN 3-Indolizinecarboxaldehyde, 2-phenyl-6-(phenylmethoxy)- (9CI) (CA INDEX NAME)



IT 84269-87-4P 84269-88-5P 84269-89-6P
 84269-90-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

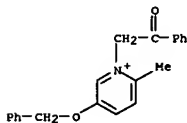
L15 ANSWER 48 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1983:33596 CAPLUS
 DOCUMENT NUMBER: 98:53596
 TITLE: Synthesis of new phenols. Part 2. Derivatives of 6-hydroxy-2-phenylindolizine
 AUTHOR(S): Guet, Chantal; Blondeau, Dominique; Sliwa, Henri
 CORPORATE SOURCE: Lab. Chim. Org., Univ. Sci. Tech. Lille, Villeneuve d'Ascq, F-59655, Fr.
 SOURCE: Journal of Chemical Research, Synopses (1982), (9), 245
 CODEN: JRPSDC; ISSN: 0308-2342
 DOCUMENT TYPE: Journal
 LANGUAGE: English/French
 OTHER SOURCE(S): CASREACT 98:53596
 GI



AB The benzyl ether (I) of the title compound (II) was prepared from 3-hydroxy-6-methylpyridine by sequential benzylation, N-quaternization with PhCOCH2Br, and intramol. cyclocondensation. Hydrogenolysis of I did not give II; however, the phenolic form was stabilized by substitution of I with mesomeric withdrawing groups, especially at position 3.

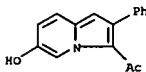
Acylation, formylation, and nitrosation of I gave the deriva. III (R = COMe, COPh, COCO2Et, NO, CHO, R1 = CH2Ph) in 60-93% yield. On hydrogenolysis these gave the free phenols III (R1 = H) in 40-55% yield.

IT 84269-80-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclization of, benzyloxyphenylindolizine by)
 RN 84269-80-7 CAPLUS
 CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-5-(phenylmethoxy)-, bromide (9CI) (CA INDEX NAME)

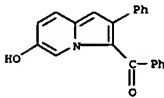


IT 84269-82-9P 84269-83-0P 84269-84-1P

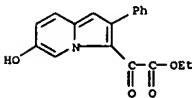
L15 ANSWER 48 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RN 84269-87-4 CAPLUS
 CN Ethanone, 1-(6-hydroxy-2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



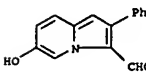
RN 84269-88-5 CAPLUS
 CN Methanone, (6-hydroxy-2-phenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



RN 84269-89-6 CAPLUS
 CN 3-Indolizineacetic acid, 6-hydroxy-α-oxo-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



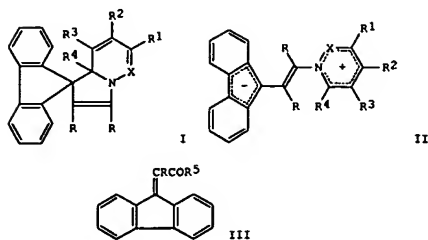
RN 84269-90-9 CAPLUS
 CN 3-Indolizinecarboxaldehyde, 6-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)



L15 ANSWER 49 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

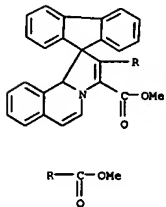
ACCESSION NUMBER: 1982:405566 CAPLUS
DOCUMENT NUMBER: 97:5566
TITLE: Photochromic systems. Part 3. Singlet oxygen-induced

AUTHOR(S): Gross, H.; Duerk, H.
CORPORATE SOURCE: Fach. 14 Org. Chem., Univ. Saarlandes, Saarbruecken, 6600, Fed. Rep. Ger.
SOURCE: Tetrahedron Letters (1981), 22(47), 4679-82
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 97:5566
GI

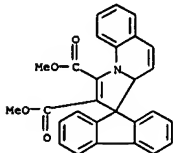


AB Irradiation of eight I [R = CO₂Me, CN; R₁ = R₃ = H; R₂, R₄ = H, Me; R₁R₂, R₂R₃ = (CH:CH)₂] gave the corresponding ring-opened betaines II. Irradiation in the presence of O and the sensitizer hematoporphyrin in MeOH or EtOH gave 28-59% of the fulvenyl esters III (R as before, R₅ = CO₂Me, OMe, OEt). The reaction may involve dioxetane intermediates.
IT 81981-31-9P
RL: PREP (Preparation) (formation and photochem. oxidation of, fulvenyl ester by)
RN 81981-31-9 CAPLUS
CN Pyridinium, 2,4,6-trimethyl-, 2-(9H-fluoren-9-ylidene)-3-methoxy-1-(methoxycarbonyl)-3-oxopropylide (9CI) (CA INDEX NAME)

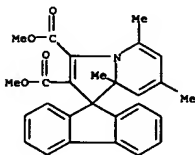
L15 ANSWER 49 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



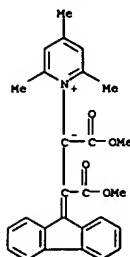
RN 72206-65-6 CAPLUS
CN Spiro[9H-fluorene-9,1'-(8'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



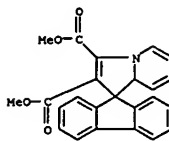
RN 81981-28-4 CAPLUS
CN Spiro[9H-fluorene-9,1'-(8'aH)-indolizine]-2',3'-dicarboxylic acid, 5',7',8'a-trimethyl-, dimethyl ester (9CI) (CA INDEX NAME)



L15 ANSWER 49 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



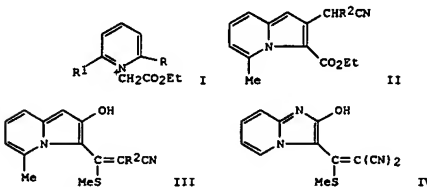
IT 72206-58-7 72206-62-3 72206-65-6
81981-28-4
RL: RCT (Reactant); RACT (Reactant or reagent) (ring cleavage of, betaine by photochem.)
RN 72206-58-7 CAPLUS
CN Spiro[9H-fluorene-9,1'-(8'aH)-indolizine]-2',3'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



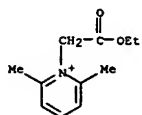
RN 72206-62-3 CAPLUS
CN Spiro[9H-fluorene-9,1'-(10'bH)-pyrrolo[2,1-a]isoquinoline]-2',3'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)

L15 ANSWER 50 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

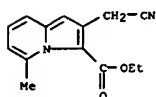
ACCESSION NUMBER: 1982:217667 CAPLUS
DOCUMENT NUMBER: 96:217667
TITLE: Synthesis of indolizine derivatives and their reactions. V
AUTHOR(S): Kurata, Keiji; Awaya, Hiroyoshi; Tominaga, Yoshinori; Matsuda, Yoshiro; Kobayashi, Goro
CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, 850, Japan
SOURCE: Yakugaku Zasshi (1981), 101(11), 980-90
CODEN: YKKZAJ; ISSN: 0372-7750
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
OTHER SOURCE(S): CASREACT 96:217667
GI



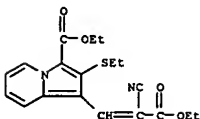
AB 2,6-Dimethyl-1-ethoxycarbonylmethylpyridinium bromide (I, R = R₁ = Me) reacted with (MeS)₂C:CR₂CN (R₂ = CN, CO₂Et) in the presence of K₂CO₃ to afford 3-ethoxycarbonylindolizines II and 3-vinylindolizines III. I (R = NH₂, R₁ = Me, H) reacted with (MeS)₂C:CR₂CN (R₂ = CN, CO₂Et) in the presence of K₂CO₃ only to give 3-vinylimidazo[1,2-a]pyridine deriva. e.g. IV. I (R = R₁ = Me) was treated with H₂O, CS₂ and then Me₂SO₄ to afford Me 2-hydroxy-5-methylindolizine-3-dithiocarboxylate. Imidazo[1,2-a]pyridine-3-dithiocarboxylate deriva. were obtained from I (R = NH₂, R₁ = Me, H). Some reactivities of the dithiocarboxylates with amines or active methylene compound were described.
IT 31778-09-3
RL: RCT (Reactant); RACT (Reactant or reagent) (cyclization of, with ketenethioacetals, indolizine derivative from)
RN 31778-09-3 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2,6-dimethyl-, bromide (9CI) (CA INDEX NAME)

 $\bullet \text{Br}^-$

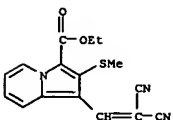
| | |
|----|-------------------------------------------------------------------------|
| IT | 74360-31-9P |
| | RL: SPN (Synthetic preparation); PREP (Preparation) |
| | (preparation of) |
| RN | 74360-31-9 CAPIUS |
| CN | 3-Indolinecarboxylic acid, 2-(cyanomethyl)-5-methyl-, ethyl ester (9CI) |
| | (CA INDEX NAME) |



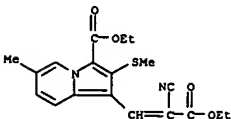
L15 ANSWER 51 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
(ethylthio)-, ethyl ester (9CI) (CA INDEX NAME)



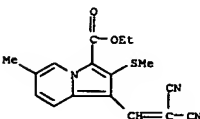
RN 79918-00-6 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-(2,2-dicyanoethenyl)-2-(methylthio)-,
ethyl
ester (9CI) (CA INDEX NAME)



RN 79918-01-7 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-(2-cyano-3-ethoxy-3-oxo-1-propenyl)-6-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

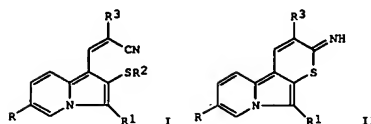


RN 79918-02-8 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-(2,2-dicyanoethenyl)-6-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



RN 79918-03-9 CAPLUS

ACCESSION NUMBER: 99 CAPLUS 1982:35138
 DOCUMENT NUMBER: 96:35138
 TITLE: Synthesis using allylidenedihydropyridines. 9.
 First
 AUTHOR(S): preparation of thieno[3,2-a]indolizine derivatives
 Kakehi, Akiharu Ito, Suketaka; Ohizumi, Tsuyoshi;
 Maeda, Toshio
 CORPORATE SOURCE: Fac. Eng., Shinshu Univ., Nagano, 380, Japan
 SOURCE: Journal of Organic Chemistry (1982), 47(2), 369-71
 CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 96:35138
 GT



AB The treatment of 2-alkylthio-1-(2-cyanovinyl)indolizines I (R = H, Me, Et;

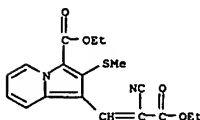
Et; R1 = CO2Et, Bz; R2 = Me, Et; R3 = CO2Et, CN), readily available from 1-[2,2-bis(alkylthio)vinyl]-2-picolinium iodides and ethoxymethylene compds. via an allylidenedihydropyridine route, with concentrated HCl afforded

the corresponding thiaindolizine derivs II.

IT 67988-71-0P 67988-73-2P 79918-00-6P
79918-01-7P 79918-02-8P 79918-03-9P

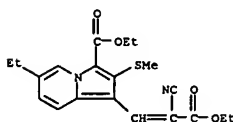
79918-04-0P 79918-05-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

3-Indolizinecarboxylic acid, 1-(2-cyano-3-ethoxy-3-oxo-1-propenyl)-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

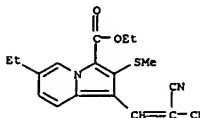


RN 67988-73-2 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-(2-cyano-3-ethoxy-3-oxo-1-propenyl)-2-

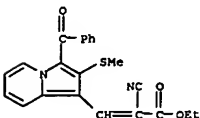
1-(2-cyano-3-ethoxy-3-oxo-1-propenyl)-6-ethyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



RN 79918-04-0 CAPLUS
CN 3-Indolizinecarboxylic acid,
1-(2,2-dicyanoethenyl)-6-ethyl-2-(methylthio)-
, ethyl ester (9CI) (CA INDEX NAME)



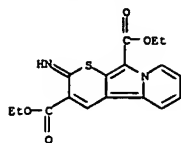
RN 79918-05-1 CAPIUS
CN 2-Propenoic acid, 3-[3-benzoyl-2-(methylthio)-1-indoliziny]-2-cyano-,
ethyl ester (9CI) (CA INDEX NAME)



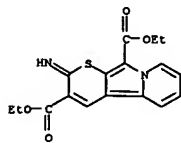
IT 79918-06-2P 79918-07-3P 79918-08-4P
79918-09-5P 79918-10-8P 79918-11-9P
79918-12-0P 79918-13-1P 79918-14-2P
79918-15-3P

79918-15-3P
RL: SPN (Synthetic
(preparation of
RN 79918-06-2 CAPLUS

RN 79918-06-2 CAPLUS
CN 2H-Thiopyrano[3,2-a]indolizine-3,10-dicarboxylic acid, 2-imino-, diethyl ester (9CI) (CA INDEX NAME)

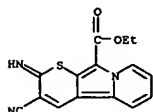


RN 79918-07-3 CAPLUS
CN 2H-Thiopyrano[3,2-a]indolizine-3,10-dicarboxylic acid, 2-imino-, diethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

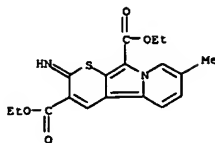


● HCl

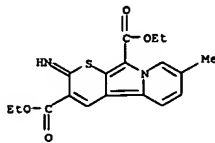
RN 79918-08-4 CAPLUS
CN 2H-Thiopyrano[3,2-a]indolizine-10-carboxylic acid, 3-cyano-2-imino-, ethyl ester (9CI) (CA INDEX NAME)



RN 79918-09-5 CAPLUS
CN 2H-Thiopyrano[3,2-a]indolizine-3,10-dicarboxylic acid, 2-imino-7-methyl-, diethyl ester (9CI) (CA INDEX NAME)

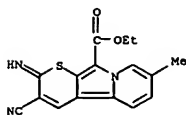


RN 79918-10-8 CAPLUS
CN 2H-Thiopyrano[3,2-a]indolizine-3,10-dicarboxylic acid, 2-imino-7-methyl-, diethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

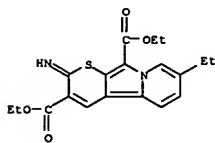


● HCl

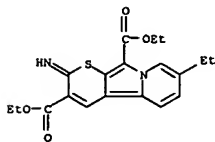
RN 79918-11-9 CAPLUS
CN 2H-Thiopyrano[3,2-a]indolizine-10-carboxylic acid, 3-cyano-2-imino-7-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 79918-12-0 CAPLUS
CN 2H-Thiopyrano[3,2-a]indolizine-3,10-dicarboxylic acid, 7-ethyl-2-imino-, diethyl ester (9CI) (CA INDEX NAME)

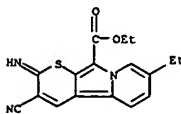


RN 79918-13-1 CAPLUS
CN 2H-Thiopyrano[3,2-a]indolizine-3,10-dicarboxylic acid, 7-ethyl-2-imino-, diethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

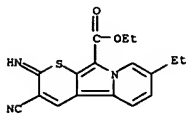


● HCl

RN 79918-14-2 CAPLUS
CN 2H-Thiopyrano[3,2-a]indolizine-10-carboxylic acid, 3-cyano-7-ethyl-2-imino-, ethyl ester (9CI) (CA INDEX NAME)

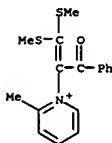


RN 79918-15-3 CAPLUS
CN 2H-Thiopyrano[3,2-a]indolizine-10-carboxylic acid, 3-cyano-7-ethyl-2-imino-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



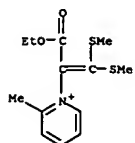
● HCl

IT 59181-92-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (ethoxymethylene)cyanoacetate)
RN 59181-92-9 CAPLUS
CN Pyridinium, 1-[1-benzoyl-2,2-bis(methylthio)ethenyl]-2-methyl-, iodide (9CI) (CA INDEX NAME)

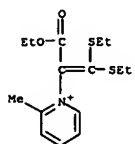


● I⁻

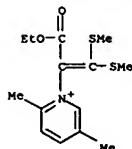
IT 59181-95-2 67988-75-4 79917-93-4
79917-94-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (ethoxymethylene)cyanoacetate and malonodinitrile)
RN 59181-95-2 CAPLUS
CN Pyridinium, 1-[1-(ethoxycarbonyl)-2,2-bis(methylthio)ethenyl]-2-methyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

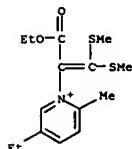
RN 67988-75-4 CAPLUS
 CN Pyridinium, 1-[1-(ethoxycarbonyl)-2,2-bis(ethylthio)ethenyl]-2-methyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

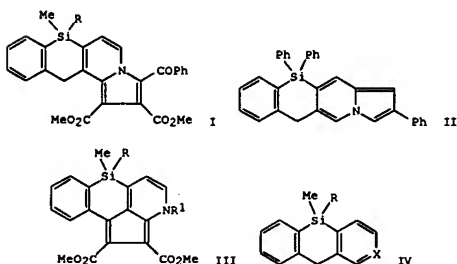
RN 79917-93-4 CAPLUS
 CN Pyridinium, 1-[1-(ethoxycarbonyl)-2,2-bis(methylthio)ethenyl]-2,5-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

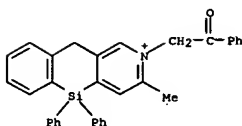
RN 79917-94-5 CAPLUS
 CN Pyridinium, 1-[1-(ethoxycarbonyl)-2,2-bis(methylthio)ethenyl]-5-ethyl-2-methyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

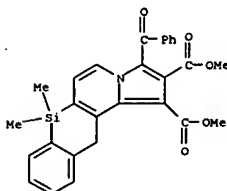
L15 ANSWER 52 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1981:620091 CAPLUS
 DOCUMENT NUMBER: 95:220091
 TITLE: Synthesis of dihydrosilanaphthoindolizines and dihydrosilaazaaceanthrenes
 AUTHOR(S): Prostakov, N. S.; Saxena, N.; Varlamov, A. V.; Fomichov, A. A.
 CORPORATE SOURCE: Patrice Lumumba People's Friendship Univ., Moscow, 117923, USSR
 SOURCE: Journal of Organometallic Chemistry (1981), 218(1), 17-26
 CODEN: JORCAI; ISSN: 0022-328X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 95:220091
 GI



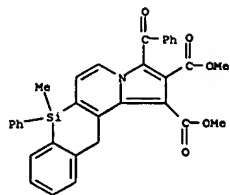
AB Dihydrosilanaphthoindolizines I (R = Me, Ph), II, and dihydrosilaazaaceanthrenes III (R = Me, Ph; R1 = Me, PhCH2) were prepared
 Thus, treating IV (X = N) with BrCH2Br gave IV (X = N+CH2Br Br- which cyclize with MeO2CC.tpbond.CO2Me to give I.
 IT 79905-09-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclization of, with di-Me acetylenedicarboxylate)
 RN 79905-09-2 CAPLUS
 CN [1]Benzosilino[3,2-c]pyridinium, 5,10-dihydro-3-methyl-2-(2-oxo-2-phenylethyl)-5,5-diphenyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

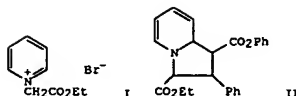
IT 79905-02-5P 79905-03-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 79905-02-5 CAPLUS
 CN [1]Benzosilino[2,3-g]indolizine-1,2-dicarboxylic acid, 3-benzoyl-7,12-dihydro-7,7-dimethyl-, dimethyl ester (9CI) (CA INDEX NAME)



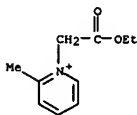
RN 79905-03-6 CAPLUS
 CN [1]Benzosilino[2,3-g]indolizine-1,2-dicarboxylic acid, 3-benzoyl-7,12-dihydro-7-methyl-7-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



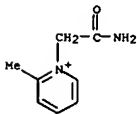
L15 ANSWER 53 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1981:515212 CAPLUS
 DOCUMENT NUMBER: 95:115212
 TITLE: Preparation of tetrahydroindolizines from pyridinium and isoquinolinium ylides
 AUTHOR(S): Katritzky, Alan R.; Grzeskowiak, Nicholas E.; Alvarez-Builla, Julio
 CORPORATE SOURCE: Sch. Chem. Sci., Univ. East Anglia, Norwich, NR4 7TJ, UK
 SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1981), (4), 1180-5
 CODEN: JCPRB4; ISSN: 0300-922X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 95:115212
 GI



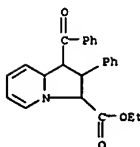
AB Carbonyl- and nitrile-stabilized pyridinium and cyclic azonium methylides, prepared by treatment of the heterocycle with the appropriate active halogen compound, condensed with chalcones to give tetrahydroindolizines and analogous fused pyrrolidines. E.g., treatment of I, prepared (92t) by addition of BrCH₂CO₂Et to pyridine (EtOAc, room temperature, overnight), with PhCOCH:CHPh (NaOEt/EtOH, 25-60°, 30 min) gave 90t II. The reaction stereochem. is discussed in terms of product IR and 13C and 1H NMR spectra.
 IT 55814-02-3P 78572-44-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclocondensation reactions of, with chalcones)
 RN 55814-02-3 CAPLUS
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

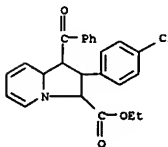
RN 78572-44-8 CAPLUS
 CN Pyridinium, 1-(2-amino-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

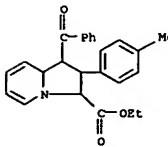
IT 78572-55-1P 78572-56-2P 78572-57-3P
 78572-58-4P 78572-59-5P 78572-60-8P
 78572-61-9P 78572-62-0P 78572-63-1P
 78572-64-2P 78572-65-3P 78572-66-4P
 78572-67-5P 78572-68-6P 78572-69-7P
 78572-70-0P 78572-71-1P 78572-72-2P
 78572-73-3P 78572-74-4P 78572-75-5P
 78572-76-6P 78572-77-7P 78572-78-8P
 78572-79-9P 78572-80-0P 78592-93-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 78572-55-1 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-benzoyl-1,2,3,8a-tetrahydro-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



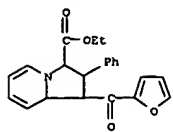
RN 78572-56-2 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-benzoyl-2-(4-chlorophenyl)-1,2,3,8a-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



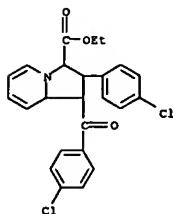
RN 78572-57-3 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-benzoyl-1,2,3,8a-tetrahydro-2-(4-methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



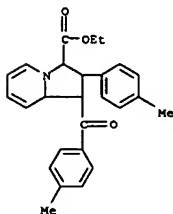
RN 78572-58-4 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-(2-furanylcabonyl)-1,2,3,8a-tetrahydro-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



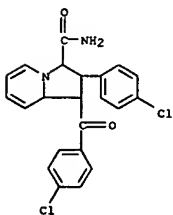
RN 78572-59-5 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-(4-chlorobenzoyl)-2-(4-chlorophenyl)-1,2,3,8a-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



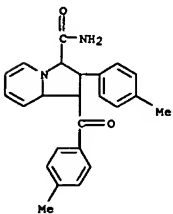
RN 78572-60-8 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-(4-methylbenzoyl)-2-(4-methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



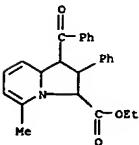
RN 78572-61-9 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-benzoyl-1,2,3,8a-tetrahydro-2-phenyl-, methyl ester (9CI) (CA INDEX NAME)



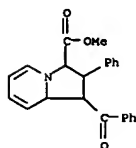
RN 78572-65-3 CAPLUS
CN 3-Indolizinecarboxamide, 1,2,3,8a-tetrahydro-1-(4-methylbenzoyl)-2-(4-methylphenyl)- (9CI) (CA INDEX NAME)



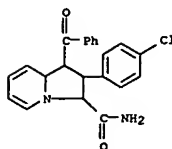
RN 78572-66-4 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-benzoyl-1,2,3,8a-tetrahydro-5-methyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



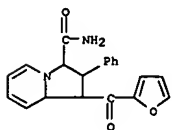
RN 78572-67-5 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 1-acetyl-1,2,3,10b-tetrahydro-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



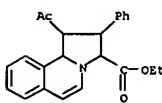
RN 78572-62-0 CAPLUS
CN 3-Indolizinecarboxamide, 1-benzoyl-2-(4-chlorophenyl)-1,2,3,8a-tetrahydro- (9CI) (CA INDEX NAME)



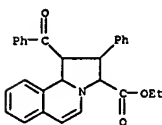
RN 78572-63-1 CAPLUS
CN 3-Indolizinecarboxamide, 1-(2-furanylcabonyl)-1,2,3,8a-tetrahydro-2-phenyl- (9CI) (CA INDEX NAME)



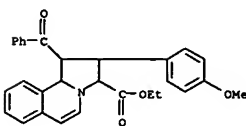
RN 78572-64-2 CAPLUS
CN 3-Indolizinecarboxamide, 1-(4-chlorobenzoyl)-2-(4-chlorophenyl)-1,2,3,8a-tetrahydro- (9CI) (CA INDEX NAME)



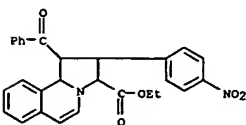
RN 78572-68-6 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 1-benzoyl-1,2,3,10b-tetrahydro-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 78572-69-7 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 1-benzoyl-1,2,3,10b-tetrahydro-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

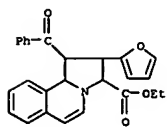


RN 78572-70-0 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 1-benzoyl-1,2,3,10b-tetrahydro-2-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)

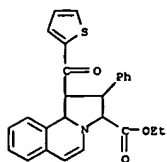


RN 78572-71-1 CAPLUS

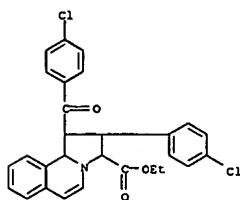
L15 ANSWER 53 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 1-benzoyl-2-(2-furanyl)-1,2,3,10b-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



RN 78572-72-2 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 1,2,3,10b-tetrahydro-2-phenyl-1-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)

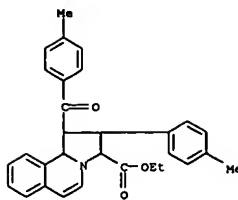


RN 78572-73-3 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 1-(4-chlorobenzoyl)-2-(4-chlorophenyl)-1,2,3,10b-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)

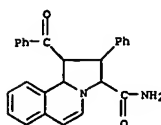


RN 78572-74-4 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 1,2,3,10b-tetrahydro-1-(4-methylbenzoyl)-2-(4-methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

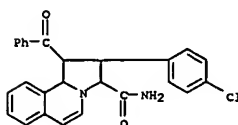
L15 ANSWER 53 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 78572-75-5 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxamide, 1-benzoyl-1,2,3,10b-tetrahydro-2-phenyl- (9CI) (CA INDEX NAME)

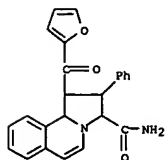


RN 78572-76-6 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxamide, 1-benzoyl-2-(4-chlorophenyl)-1,2,3,10b-tetrahydro- (9CI) (CA INDEX NAME)

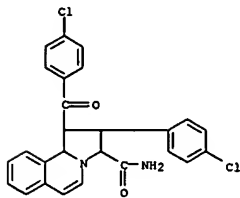


RN 78572-77-7 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxamide, 1-(2-furanylcarbonyl)-1,2,3,10b-tetrahydro-2-phenyl- (9CI) (CA INDEX NAME)

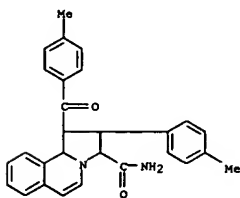
L15 ANSWER 53 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 78572-78-8 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxamide, 1-(4-chlorobenzoyl)-2-(4-chlorophenyl)-1,2,3,10b-tetrahydro- (9CI) (CA INDEX NAME)

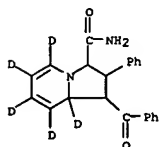


RN 78572-79-9 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxamide, 1,2,3,10b-tetrahydro-1-(4-methylbenzoyl)-2-(4-methylphenyl)- (9CI) (CA INDEX NAME)

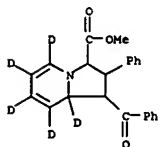


RN 78572-85-7 CAPLUS
 CN 3-Indolizine-5,6,7,8-d4-carboxylic acid, 1-benzoyl-1,2,3,8a-tetrahydro-8a-d-2-phenyl- (9CI) (CA INDEX NAME)

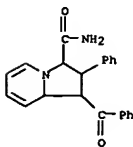
L15 ANSWER 53 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



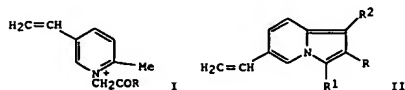
RN 78592-93-5 CAPLUS
 CN 3-Indolizine-5,6,7,8-d4-carboxylic acid, 1-benzoyl-1,2,3,8a-tetrahydro-8a-d-2-phenyl-, methyl ester (9CI) (CA INDEX NAME)



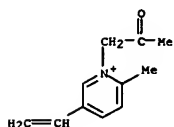
IT 78572-54-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, by cyclocondensation of chalcone with (carbamoylmethyl)pyridinium bromide)
 RN 78572-54-0 CAPLUS
 CN 3-Indolizinecarboxamide, 1-benzoyl-1,2,3,8a-tetrahydro-2-phenyl- (9CI) (CA INDEX NAME)



L15 ANSWER 54 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1981:208644 CAPLUS
 DOCUMENT NUMBER: 94:208644
 TITLE: Synthesis and properties of 2-R-6-vinylindolizines
 AUTHOR(S): Kutrov, G. P.; Kovalenko, N. V.
 CORPORATE SOURCE: Kiev. Gos. Univ., Kiev, USSR
 SOURCE: Ukrainskii Khimicheskii Zhurnal (Russian Edition) (1981), 47(1), 92-4
 CODEN: UKZHAI; ISSN: 0041-6045
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 94:208644
 GI



AB Treatment of 2-methyl-5-vinylpyridine with BrCH₂COR (R = Me, Ph) gave pyridinium salts I in 74 and 72% yield, resp.; I were cyclized with NaOH to give II (R₁ = R₂ = H) in 70 and 52% yield, resp. Treatment of II (R = Me, R₁ = R₂ = H) (III) with HClO₄ gave 81.6% 2-methyl-6-vinylindolizinium perchlorate. III was converted to 55-73% II (R = Me, R₂ = H, R₁ = CHO, CH₃, NO; R₁ = R₂ = CHO) by formylation, nitrosation and treatment with P(O)Cl₃ and NaSH.
 IT 1439-22-1P 31030-03-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclocondensation of, vinylindolizines from)
 RN 1439-22-1 CAPLUS
 CN Pyridinium, 5-ethenyl-2-methyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

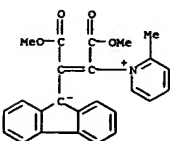
RN 31030-03-2 CAPLUS
 CN Pyridinium, 5-ethenyl-2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 55 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1981:123108 CAPLUS
 DOCUMENT NUMBER: 94:123108
 TITLE: Photochromic spiro[1,8-a-dihydroindolizines] and their
 use in radiation-sensitive materials
 INVENTOR(S): Duerr, Heinz; Hauck, Gerhard
 PATENT ASSIGNEE(S): Fed. Rep. Ger.
 SOURCE: Ger. Offen., 29 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| DE 2906193 | A1 | 19800828 | DE 1979-2906193 | 19790217 |
| DE 2906193 | C2 | 19910523 | | |

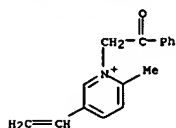
PRIORITY APPL. INFO.: DE 1979-2906193 A 19790217

GI For diagram(s), see printed CA Issue.
 AB Photochromic compds. (I; R = C2-3-alkoxycarbonyl, acyl derived from C1-4 carboxylic acid or aromatic acid, CN; R₁ = H, R; R₂ = H, C1-4 alkyl, or with
 X (when X = CH) forms a fused benzene ring; R₃ = C1-4 alkyl, C1-4 alkoxy, or with R₄ forms a fused benzene ring; R₄ = H or with R₃ forms a fused benzene ring; X = CH, CR₅ (R₅ = C1-4 alkyl), N, or with R₂ forms a fused benzene ring; X1 = CH, CMe, N; Z = atoms necessary to complete a dibenzocyclopentadiene, benzodiphenylcyclopentadiene, tetraphenylcyclopentadiene, or dibenzocyclohexa-2,5-dien-4-one ring) were prepared and used in radiation-sensitive materials. Thus, 2,3-bis(methoxycarbonyl)spiro[cyclopropen-1,9'-fluorene] [39500-48-6]
 was stirred with pyridine [110-86-1] in the absence of light to give II [72206-58-7]. Ten other I were similarly prepared Optical properties of films containing I are described.
 IT 76874-87-8
 RL: USES (Uses)
 (absorption maximum and kinetics of thermal cyclization of)
 RN 76874-87-8 CAPLUS
 CN Pyridinium, 1-[2-(9H-fluoren-9-yl)-3-methoxy-1-(methoxycarbonyl)-3-oxo-1-propenyl]-2-methyl-, inner salt (9CI) (CA INDEX NAME)



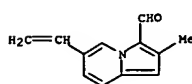
IT 72206-58-7P 72206-63-4P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation and photochromic properties of)
 RN 72206-58-7 CAPLUS

L15 ANSWER 54 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

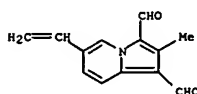


● Br⁻

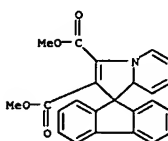
IT 77652-50-7P 77652-53-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 77652-50-7 CAPLUS
 CN 3-Indolizinecarboxaldehyde, 6-ethenyl-2-methyl- (9CI) (CA INDEX NAME)



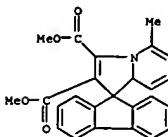
RN 77652-53-0 CAPLUS
 CN 1,3-Indolizinedicarboxaldehyde, 6-ethenyl-2-methyl- (9CI) (CA INDEX NAME)



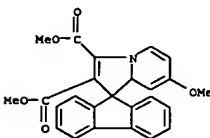
L15 ANSWER 55 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN Spiro[9H-fluorene-9,1'(8'ah)-indolizine]-2',3'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



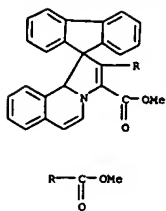
RN 72206-63-4 CAPLUS
 CN Spiro[9H-fluorene-9,1'(8'ah)-indolizine]-2',3'-dicarboxylic acid, 5'-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



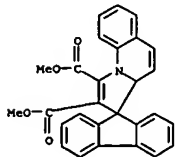
IT 72206-60-1P 72206-62-3P 72206-65-6P
 72206-66-7P 72206-68-9P 76874-84-5P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (preparation of)
 RN 72206-60-1 CAPLUS
 CN Spiro[9H-fluorene-9,1'(8'ah)-indolizine]-2',3'-dicarboxylic acid, 7'-methoxy-, dimethyl ester (9CI) (CA INDEX NAME)



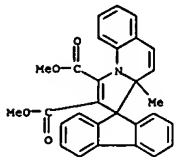
RN 72206-62-3 CAPLUS
 CN Spiro[9H-fluorene-9,1'(10'bh)-pyrrolo[2,1-a]isoquinoline]-2',3'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



RN 72206-65-6 CAPLUS
CN Spiro[9H-fluorene-9,3'(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)

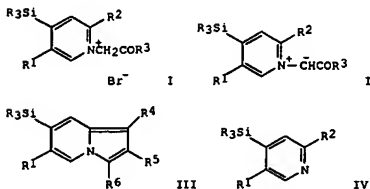


RN 72206-66-7 CAPLUS
CN Spiro[9H-fluorene-9,3'(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic acid, 3'a-methyl-, dimethyl ester (9CI) (CA INDEX NAME)

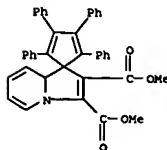


RN 72206-68-9 CAPLUS
CN Spiro[2,4-cyclopentadiene-1,1'(8'aH)-indolizine]-2',3'-dicarboxylic acid, 2,3,4,5-tetraphenyl-, dimethyl ester (9CI) (CA INDEX NAME)

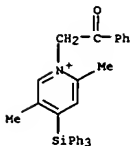
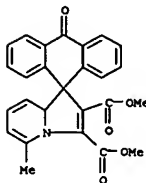
L15 ANSWER 56 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1980:639513 CAPLUS
DOCUMENT NUMBER: 93:239513
TITLE: γ -Trimethylsilyl(triphenylsilyl)pyridines in the synthesis of silicon-containing pyridinium ylides and indolizines
AUTHOR(S): Prostakov, N. S.; Varlamov, A. V.; Saksena, N.; Savina, A. A.; Raj, G. Datta; Maslova, L. V.
CORPORATE SOURCE: Univ. Druzhby Nar. im. Lomonosova, Moscow, USSR
SOURCE: Khimiya Geterotsiklicheskih Soedinenii (1980), (7), 965-8
CODEN: KGSSAQ; ISSN: 0453-8234
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 93:239513
GI



AB Pyridinium ylides and indolizines I, II (R = Me, Ph; R₁, R₂ = H, Me; R₃ = Ph, OEt), III (R₄ = R₅ = CO₂Me, R₆ = CO₂Ph, CO₂Et; R₄ = R₆ = H, R₅ = Ph) were prepared in 14-90% yields from IV. Thus, refluxing IV (R = Me, R₁ = R₂ = H) with PhCOCH₂Br in benzene gave 40% I (R = Me, R₁ = R₂ = H, R₃ = Ph) which on treatment with 40% aqueous KOH gave 90% corresponding II.
IT 67433-77-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and dehydrobromination of)
RN 67433-77-6 CAPLUS
CN Pyridinium, 3,6-dimethyl-1-(2-oxo-2-phenylethyl)-4-(triphenylsilyl)-, bromide (9CI) (CA INDEX NAME)

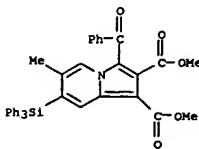


RN 76874-84-5 CAPLUS
CN Spiro[anthracene-9(10H),1'(8'aH)-indolizine]-2',3'-dicarboxylic acid, 5'-methyl-10-oxo-, dimethyl ester (9CI) (CA INDEX NAME)

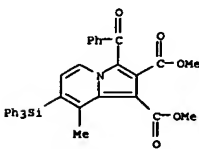


● Br⁻

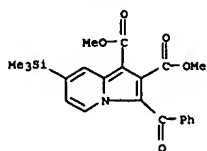
IT 67433-81-2P 67433-82-3P 75746-59-7P
75746-60-0P 75758-36-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 67433-81-2 CAPLUS
CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-6-methyl-7-(triphenylsilyl)-, dimethyl ester (9CI) (CA INDEX NAME)



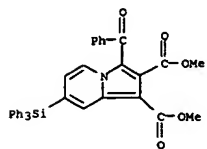
RN 67433-82-3 CAPLUS
CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-8-methyl-7-(triphenylsilyl)-, dimethyl ester (9CI) (CA INDEX NAME)



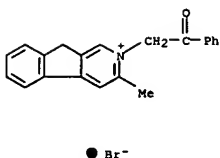
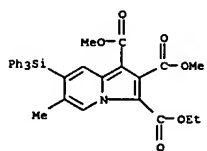
RN 75746-59-7 CAPLUS
CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-7-(trimethylsilyl)-, dimethyl ester (9CI) (CA INDEX NAME)



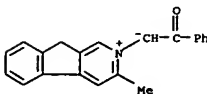
RN 75746-60-0 CAPLUS
CN 1,2-indolizinedicarboxylic acid, 3-benzoyl-7-(triphenylsilyl)-, dimethyl ester (9CI) (CA INDEX NAME)



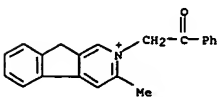
RN 75758-36-0 CAPLUS
CN 1,2,3-indolizinetricarboxylic acid, 6-methyl-7-(triphenylsilyl)-, 3-ethyl 1,2-dimethyl ester (9CI) (CA INDEX NAME)



IT 73638-99-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with benzoyl chloride)
RN 73638-99-0 CAPLUS
CN 9H-indeno[2,1-c]pyridinium, 3-methyl-, 2-oxo-2-phenylethylide (9CI) (CA INDEX NAME)

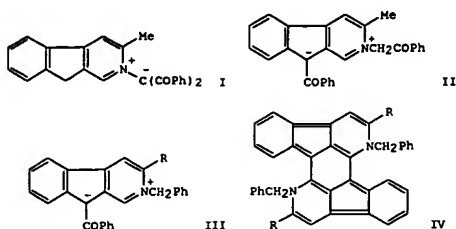


IT 34937-56-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with bases, ylides from)
RN 34937-56-9 CAPLUS
CN 9H-indeno[2,1-c]pyridinium, 3-methyl-2-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

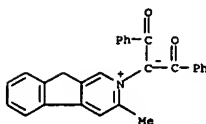


IT 73639-00-6P 73639-03-9P 75561-28-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 73639-00-6 CAPLUS
CN 9H-indeno[2,1-c]pyridinium, 3-methyl-, 1-benzoyl-2-oxo-2-phenylethylide (9CI) (CA INDEX NAME)

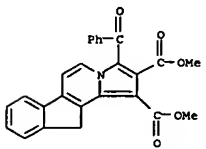
L15 ANSWER 57 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1980:620562 CAPLUS
Correction of: 1980:407962
93:220562
DOCUMENT NUMBER: Correction of: 93:7962
TITLE: Transformation of quaternary salts of 2- and 4-azafluorenes by bases
AUTHOR(S): Prostakov, N. S.; Galvoronskaya, L. A.; Anastasi, R. I.; Kamara Maiga, S. M.; Savina, A. A.; Murugova, L. A.; Zakharov, P. I.
CORPORATE SOURCE: Univ. Druzhby Nar. im. Lumumby, Moscow, 117923, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1979), (11), 1514-23
CODEN: KGSSAQ; ISSN: 0453-8234
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI



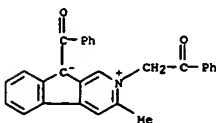
AB Quaternary ammonium salts of 2-azafluorene, 3-methyl-2-azafluorene, and 4-azafluorene with PhCOCH2Br and PhCH2Br were prepared. Treatment of N-phenacyl-3-methyl-2-azafluorene ammonium bromide with K2CO3 and then with BzCl gave the azafluorene ylides I and II. Analogous ylides were obtained from N-phenacyl ammonium salts of 2-azafluorene and 4-azafluorene. N-Benzyl ammonium bromides of 2-azafluorene and 3-methyl-2-azafluorene were treated with BzCl in CHCl3 containing Et3N to give ylides III (R = H, Me) and diazafluorenofluorenes IV (R = H, Me).
IT 34937-56-9DP, deuterated
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and NMR spectrum of)
RN 34937-56-9 CAPLUS
CN 9H-indeno[2,1-c]pyridinium, 3-methyl-2-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



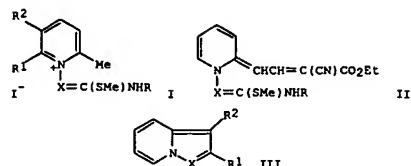
RN 73639-03-9 CAPLUS
CN 11H-indeno[1,2-g]indolizine-1,2-dicarboxylic acid, 3-benzoyl-, dimethyl ester (9CI) (CA INDEX NAME)



RN 75561-28-3 CAPLUS
CN 9H-indeno[2,1-c]pyridinium, 9-benzoyl-3-methyl-2-(2-oxo-2-phenylethyl)-, inner salt (9CI) (CA INDEX NAME)

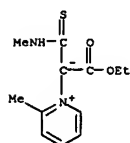


L15 ANSWER 58 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1980:532417 CAPLUS
 DOCUMENT NUMBER: 93:132417
 TITLE: Synthesis using allylidenedihydropyridines. Part 7. Preparation and some reactions of vinyl-substituted 2-aminopyrazolo[1,5-a]pyridines and 2-aminoindolizines
 AUTHOR(S): Kakehi, Akikazu; Ito, Suketaka; Watanabe, Kozo; Ono, Tadashi; Miyazima, Tomio
 CORPORATE SOURCE: Dep. Ind. Chem., Shinshu Univ., Nagano, 380, Japan
 SOURCE: Journal of Chemical Research, Synopses (1980), (1), 18-19
 CODEN: JRPSCD; ISSN: 0308-2342
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 93:132417
 GI

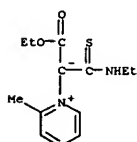


AB The title compds. were prepared from the pyridinium salts I (R = Me, Et, R1 = R2 = H, X = N, C(CO2Et); R = Me, Et, R1 = Me, R2 = H, X = N; R = Me, Et, R1 = R2 = H, X = N) by reaction with EtOCH: C(CN)CO2Et. E.g. the allylidenepyridine II (X = N, R = Me), prepared from I (R = Me, R1 = R2 = H, X = N), underwent intramol. cyclization by refluxing in PhMe to give pyrazolopyridine III [X = N, R1 = NHMe, R2 = CH: C(CN)CO2Et]. The intramol. cyclization of II [X = C(CO2Et), R = Me] in xylene gave III [X = C(CO2Et), R1 = NHMe, R2 = CH: C(CN)CO2Et] together with III [X = C(CO2Et), R1 = NHMe, R2 = H] and III [X = C(CO2Et), R1 = SMe, R2 = CH: C(CN)CO2Et].
 IT 74820-49-8P 74820-50-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and condensation reaction of, with Et (ethoxymethylene)cianoacetate)
 RN 74820-49-8 CAPLUS
 CN Pyridinium, 1-[1-(ethoxycarbonyl)-2-(methylamino)-2-(methylthio)ethenyl]-2-methyl-, iodide, (Z)- (9CI) (CA INDEX NAME)
 Double bond geometry as shown.

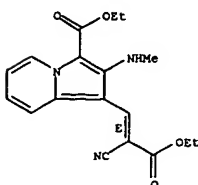
L15 ANSWER 58 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 74820-40-9 CAPLUS
 CN Pyridinium, 2-methyl-, 1-(ethoxycarbonyl)-2-(ethylamino)-2-thioxoethylide (9CI) (CA INDEX NAME)

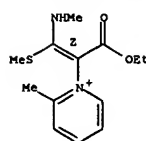


IT 74820-69-2P 74820-70-5P 74820-71-6P
 74820-72-7P 74820-74-9P 74820-77-2P
 74820-78-3P 74820-86-3P 74820-87-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 74820-69-2 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-(2-cyano-3-ethoxy-3-oxo-1-propenyl)-2-(methylamino)-, ethyl ester, (E)- (9CI) (CA INDEX NAME)
 Double bond geometry as shown.



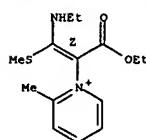
RN 74820-70-5 CAPLUS
 CN 3-Indolizinecarboxylic acid, 2-(methylamino)-, ethyl ester (9CI) (CA INDEX NAME)

L15 ANSWER 58 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● I⁻

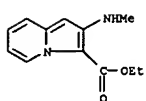
RN 74820-50-1 CAPLUS
 CN Pyridinium, 1-[1-(ethoxycarbonyl)-2-(ethylamino)-2-(methylthio)ethenyl]-2-methyl-, iodide, (Z)- (9CI) (CA INDEX NAME)
 Double bond geometry as shown.



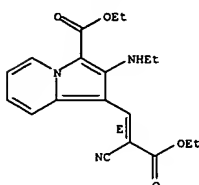
● I⁻

IT 74820-39-6P 74820-40-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and S-methylation of)
 RN 74820-39-6 CAPLUS
 CN Pyridinium, 2-methyl-, 1-(ethoxycarbonyl)-2-(methylamino)-2-thioxoethylide (9CI) (CA INDEX NAME)

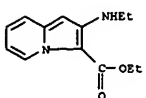
L15 ANSWER 58 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



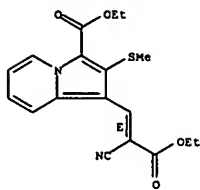
RN 74820-71-6 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-(2-cyano-3-ethoxy-3-oxo-1-propenyl)-2-(methylthio)-, ethyl ester, (E)- (9CI) (CA INDEX NAME)
 Double bond geometry as shown.



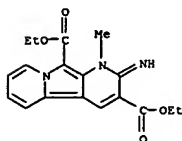
RN 74820-72-7 CAPLUS
 CN 3-Indolizinecarboxylic acid, 2-(ethylamino)-, ethyl ester (9CI) (CA INDEX NAME)



RN 74820-74-9 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-(2-cyano-3-ethoxy-3-oxo-1-propenyl)-2-(methylthio)-, ethyl ester, (E)- (9CI) (CA INDEX NAME)
 Double bond geometry as shown.

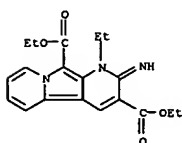


RN 74820-77-2 CAPLUS
CN Pyrido[3,2-a]indolizine-3,10-dicarboxylic acid, 1,2-dihydro-2-imino-1-methyl-, diethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



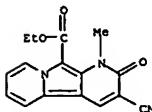
● HCl

RN 74820-78-3 CAPLUS
CN Pyrido[3,2-a]indolizine-3,10-dicarboxylic acid, 1-ethyl-1,2-dihydro-2-imino-, diethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

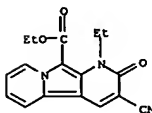


● HCl

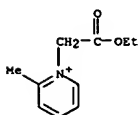
RN 74820-86-3 CAPLUS
CN Pyrido[3,2-a]indolizine-10-carboxylic acid, 3-cyano-1,2-dihydro-1-methyl-2-



RN 74820-87-4 CAPLUS
CN Pyrido[3,2-a]indolizine-10-carboxylic acid, 3-cyano-1-ethyl-1,2-dihydro-2-oxo-, ethyl ester (9CI) (CA INDEX NAME)

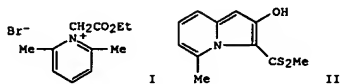


IT 58963-28-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(N-acylation of, by organic isothiocyanates)
RN 58963-28-3 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)



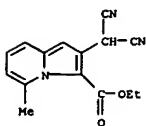
● Cl⁻

L15 ANSWER 59 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1980:471509 CAPLUS
DOCUMENT NUMBER: 93:71509
TITLE: Syntheses of indolizine derivatives and their reactions
AUTHOR(S): Kurata, Keiji; Tajima, Yasushi; Awaya, Hiroyoshi; Tomimaga, Yoshinori; Matsuda, Yoshiro; Kobayashi, Goro
CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, 852, Japan
SOURCE: Fukusokan Kagaku Toronkai Koen Yoshishu, 12th (1979), 106-10. Kitasato Daigaku Yakugakubu: Tokyo, Japan.
CODEN: 42VCA9
DOCUMENT TYPE: Conference
LANGUAGE: Japanese
GI

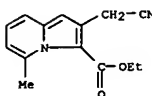


AB The reactions of pyrimidinium and thiazolium N-ylides with CS₂ and ketene thioacetals, e.g., (MeS)₂C=C(CN)₂, were investigated. Thus, treating I with NaH, CS₂ and then Me₂SO₄ gave II.

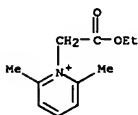
IT 64995-32-0P 74360-31-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 64995-32-0 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-(dicyanomethyl)-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 74360-31-9 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-(cyanomethyl)-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)

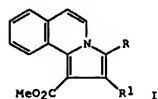


IT 31778-09-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with carbon disulfide and with ketenethioacetal)
RN 31778-09-3 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2,6-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

L15 ANSWER 60 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1980:407981 CAPLUS
 DOCUMENT NUMBER: 93:7981
 TITLE: New routes to the pyrrolo[2,1-a]isoquinoline system
 AUTHOR(S): Iwao, Masatomo; Kuraishi, Tsukasa
 CORPORATE SOURCE: Fac. Lib. Arts, Nagasaki Univ., Nagasaki, 852, Japan
 SOURCE: Bulletin of the Chemical Society of Japan (1980),
 53(1), 297-8
 CODEN: BCSJAB; ISSN: 0009-2673
 JOURNAL
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 93:7981
 GI



AB Derivs. of the title compound I (R = Bz, Ac, p-O2NC6H4, R1 = Me; R = H, R1 =

Ph, Me; R = Bz, R1 = NH2) were prepared from Me α -(1-isoquinolyl)- β -aminocrotonate and Et α -(1-isoquinolyl)- β -amino- β -ethoxyacrylate in moderate to good yields via cyclization of their quaternary salts.

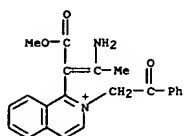
IT 73813-15-7P 73813-16-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of)

RN 73813-15-7 CAPLUS

CN Isoquinolinium, 1-[2-amino-1-(methoxycarbonyl)-1-propenyl]-2-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



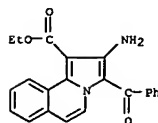
● Br⁻

RN 73813-16-8 CAPLUS

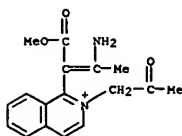
CN Isoquinolinium,

1-[2-amino-1-(methoxycarbonyl)-1-propenyl]-2-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 60 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L15 ANSWER 60 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



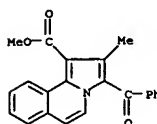
● Br⁻

IT 73813-17-9P 73813-18-0P 73813-21-5P

RL: SPN (Synthetic preparation); PREP (Preparation); RACT (Preparation of)

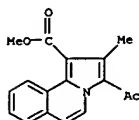
RN 73813-17-9 CAPLUS

CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-benzoyl-2-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 73813-18-0 CAPLUS

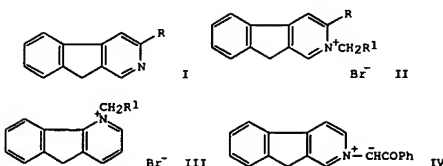
CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-acetyl-2-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 73813-21-5 CAPLUS

CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 2-amino-3-benzoyl-, ethyl ester (9CI) (CA INDEX NAME)

L15 ANSWER 61 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1980:407962 CAPLUS
 DOCUMENT NUMBER: 93:7962
 TITLE: Transformation of quaternary salts of 2- and 4-azafluorenes by bases
 AUTHOR(S): Prostakov, N. S.; Galvoronskaya, L. A.; Anastasi, R. I.; Kamara Maiga, S. M.; Savina, A. A.; Murugova, L. A.; Zakharov, P. I.
 CORPORATE SOURCE: Univ. Druzhby Nar. im. Lumumby, Moscow, 117923, USSR
 SOURCE: Khimiya Geterotsiklichesikh Soedinenii (1979), (11), 1514-23
 CODEN: KGSSAQ; ISSN: 0453-8234
 JOURNAL
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 93:7962
 GI



AB Treatment of azafluorenes I (R = H, Me) with R1CH2Br (R1 = Bz, Ph) gave 90-94 II; III were prepared similarly. Treatment of II (R = Me, R1 = Bz) with K2CO3 gave the ylide IV, which when treated with BzCl and K2CO3 gave 3-methyl-2-azafluorene dibenzoylmethylide and N-phenacyl-3-methyl-9-benzoylindene[2,3-c]pyridinium. Reaction of II (R = Me, R1 = Bz) (V) with BzCl in the presence of Et3N gave N-phenacyl-9-benzoylindene[2,3-c]pyridinium. V and di-Me acetylenedicarboxylate gave 3-benzoyl-1,2-dicarbomethoxyindeno[1,2-g]indolizine. Similar reactions were observed with other II and III.

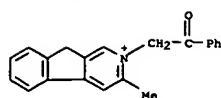
IT 34937-56-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

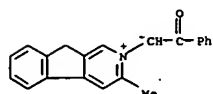
(preparation and reaction of, with bases)

RN 34937-56-9 CAPLUS

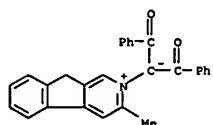
CN 9H-Indeno[2,1-c]pyridinium, 3-methyl-2-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

● Br⁻

IT 73638-99-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, with benzoyl chloride)
 RN 73638-99-0 CAPLUS
 CN 9H-Indeno[2,1-c]pyridinium, 3-methyl-, 2-oxo-2-phenylethylidene (9CI) (CA INDEX NAME)

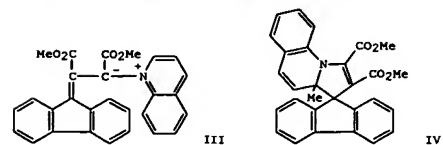
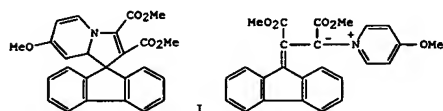


IT 73639-00-6P 73639-03-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 73639-00-6 CAPLUS
 CN 9H-Indeno[2,1-c]pyridinium, 3-methyl-, 1-benzoyl-2-oxo-2-phenylethylidene (9CI) (CA INDEX NAME)

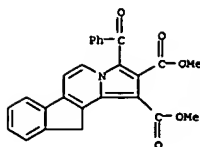


RN 73639-03-9 CAPLUS
 CN 11H-Indeno[1,2-g]indolizine-1,2-dicarboxylic acid, 3-benzoyl-, dimethyl ester (9CI) (CA INDEX NAME)

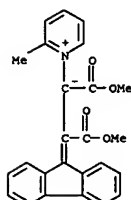
L15 ANSWER 62 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1980:119656 CAPLUS
 DOCUMENT NUMBER: 92:119656
 TITLE: 1,8a-Dihydroindolizines as components of new photochromic systems
 AUTHOR(S): Hauck, G.; Durr, H.
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Saarbruecken, Saarbruecken, D-6600, Fed. Rep. Ger.
 SOURCE: Angewandte Chemie (1979), 91(12), 1010-11
 CODEN: ANCEAD; ISSN: 0044-8249
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI



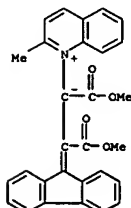
AB New photochromic systems based on the 1,8a-dihydroindolizine structure described. The photochromism of these compds. involves heterolytic bond breaking in which the electron-acceptor atom can be either a heteroatom or a substituted C atom. For example, the reactions of spiro[cyclopropene-1,9'-fluorene]-2,3-dicarboxylic acid di-Me ester with 4-methoxypyridine gave I via the intermediate II. I was characterized by IR, ¹H NMR, and mass spectra. The cyclization is regioselective but the alternative possibility for ring closure can be forced, e.g., by blocking a position through benzoannellation, as in III which is converted to IV. The reactions of II and III to give I and IV, resp., are 1st-order and the rate consts. depend on the solvent polarity and also on mesomeric and inductive effects of the substituents. Especially noticeable is the destabilization of the pos. charge by the annellated benzene ring. However, carbanion intermediates in which there are no electron-acceptor substituents are also unstable and their cyclization reactions have drastically reduced rate consts. The activation parameters of thermal cyclization of the analog of II without the MeO group on pyridine are: ΔG[‡] = 6.3 kcal/mol, EA = 15.9 kcal/mol, ΔS[‡] = -32 cal K⁻¹ mol⁻¹, and k = 4.88 × 10⁻³ (k = 11.0 × 10⁻³ for II). The long-wavelength absorption maximum of the intermediates show a remarkably strong hypsochromic effect, an indication that intramol. charge-transfer causes the color of the betaine.



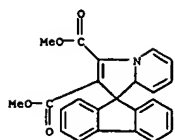
L15 ANSWER 62 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 IT 72206-52-1P 72206-55-4P
 RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (formation and cyclization of)
 RN 72206-52-1 CAPLUS
 CN Pyridinium, 1-[2-(9H-fluoren-9-ylidene)-3-methoxy-1-(methoxycarbonyl)-3-oxopropyl]-2-methyl-, inner salt (9CI) (CA INDEX NAME)



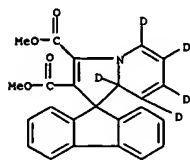
RN 72206-55-4 CAPLUS
 CN Quinolinium, 1-[2-(9H-fluoren-9-ylidene)-3-methoxy-1-(methoxycarbonyl)-3-oxopropyl]-2-methyl-, inner salt (9CI) (CA INDEX NAME)



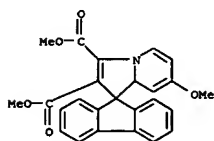
IT 72206-58-7 72206-59-8 72206-60-1
 72206-61-2 72206-62-3 72206-63-4
 72206-65-6 72206-66-7 72206-68-9
 72206-69-0
 RL: PROC (Process)
 (photochromism of)
 RN 72206-58-7 CAPLUS
 CN Spiro[9H-fluorene-9,1'(8'AH)-indolizine]-2',3'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



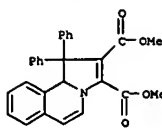
RN 72206-59-8 CAPLUS
CN Spiro[9H-fluorene-9,1'-(8'aH)-indolizine]-5',6',7',8',8'a-d5-2',3'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



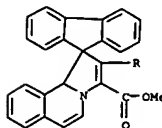
RN 72206-60-1 CAPLUS
CN Spiro[9H-fluorene-9,1'-(8'aH)-indolizine]-2',3'-dicarboxylic acid, 7'-methoxy-, dimethyl ester (9CI) (CA INDEX NAME)



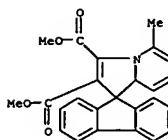
RN 72206-61-2 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-2,3-dicarboxylic acid, 1,10b-dihydro-1,1-diphenyl-, dimethyl ester (9CI) (CA INDEX NAME)



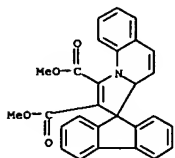
RN 72206-62-3 CAPLUS
CN Spiro[9H-fluorene-9,1'-(10'bH)-pyrrolo[2,1-a]isoquinoline]-2',3'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



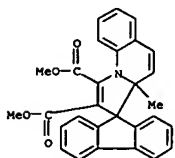
RN 72206-63-4 CAPLUS
CN Spiro[9H-fluorene-9,1'-(8'aH)-indolizine]-2',3'-dicarboxylic acid, 5'-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



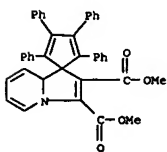
RN 72206-65-6 CAPLUS
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



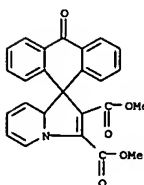
RN 72206-66-7 CAPLUS
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic acid, 3'a-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



RN 72206-68-9 CAPLUS
CN Spiro[2,4-cyclopentadiene-1,1'-(8'aH)-indolizine]-2',3'-dicarboxylic acid, 2,3,4,5-tetraphenyl-, dimethyl ester (9CI) (CA INDEX NAME)



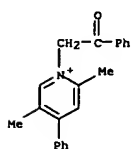
RN 72206-69-0 CAPLUS
CN Spiro[anthracene-9(10H),1'-(8'aH)-indolizine]-2',3'-dicarboxylic acid, 10-oxo-, dimethyl ester (9CI) (CA INDEX NAME)



L15 ANSWER 63 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1980:76245 CAPLUS
 DOCUMENT NUMBER: 92:76245
 TITLE: Use of 2,5-dimethyl-4-phenyl(benzyl)pyridines in syntheses of substituted indolizines
 AUTHOR(S): Frostakov, N. S.; Gaivoronskaya, L. A.; Anastasi, R. I.
 CORPORATE SOURCE: Univ. Druzhby Nar. im. Lomumby, Moscow, USSR
 SOURCE: Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i Khimicheskaya Tekhnologiya (1979), 22(10), 1197-201
 CODEN: IVUKAR; ISSN: 0579-2991
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 92:76245
 GI

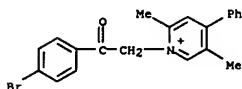
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Reaction of pyridines I (R = Ph, benzyl) with $\text{R}_1\text{C}_6\text{H}_4\text{COCH}_2\text{Br}$ ($\text{R}_1 = m\text{-O}_2\text{N}$, p-Br) gave 85-99% II, which were cyclized to give 24-70% phenylindolizines
 III. II and di-Me acetylenedicarboxylate gave 14.3-23% IV. V were prepared
 in 28.5-72% yield by reaction of II with p-O₂NC₆H₄COCl.
 IT 54485-87-9P 59647-41-5P 72768-09-3P
 72768-10-6P 72768-11-7P 72768-12-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or Reagent)
 (preparation and reactions of)
 RN 54485-87-9 CAPLUS
 CN Pyridinium, 2,5-dimethyl-1-(2-oxo-2-phenylethyl)-4-phenyl-, bromide (9CI) (CA INDEX NAME)

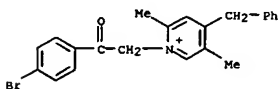


RN 59647-41-5 CAPLUS
 CN Pyridinium, 2,5-dimethyl-1-(2-oxo-2-phenylethyl)-4-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

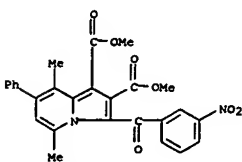
L15 ANSWER 63 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 72768-12-8 CAPLUS
 CN Pyridinium, 1-[2-(4-bromophenyl)-2-oxoethyl]-2,5-dimethyl-4-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

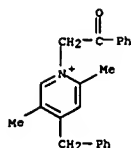


IT 72768-17-3P 72768-18-4P 72768-19-5P
 72768-20-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 72768-17-3 CAPLUS
 CN 1,2-Indolizinedicarboxylic acid, 5,8-dimethyl-3-(3-nitrobenzoyl)-7-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)

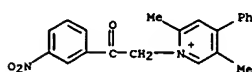


RN 72768-18-4 CAPLUS
 CN 1,2-Indolizinedicarboxylic acid, 5,8-dimethyl-3-(3-nitrobenzoyl)-7-(phenylmethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

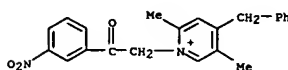
L15 ANSWER 63 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 72768-09-3 CAPLUS
 CN Pyridinium, 2,5-dimethyl-1-[2-(3-nitrophenyl)-2-oxoethyl]-4-phenyl-, bromide (9CI) (CA INDEX NAME)

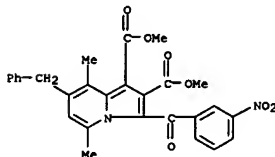


RN 72768-10-6 CAPLUS
 CN Pyridinium, 2,5-dimethyl-1-[2-(3-nitrophenyl)-2-oxoethyl]-4-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

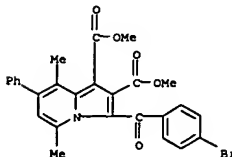


RN 72768-11-7 CAPLUS
 CN Pyridinium, 1-[2-(4-bromophenyl)-2-oxoethyl]-2,5-dimethyl-4-phenyl-, bromide (9CI) (CA INDEX NAME)

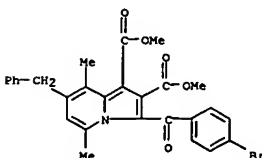
L15 ANSWER 63 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



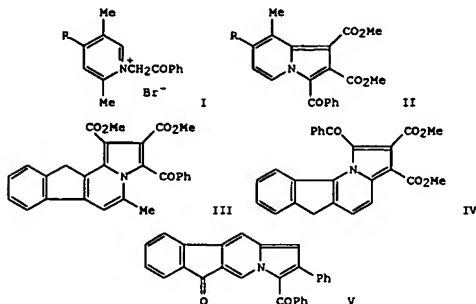
RN 72768-19-5 CAPLUS
 CN 1,2-Indolizinedicarboxylic acid, 3-(4-bromobenzoyl)-5,8-dimethyl-7-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



RN 72768-20-8 CAPLUS
 CN 1,2-Indolizinedicarboxylic acid, 3-(4-bromobenzoyl)-5,8-dimethyl-7-(phenylmethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

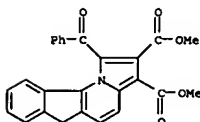


L15 ANSWER 64 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1979:523620 CAPLUS
 DOCUMENT NUMBER: 91:123620
 TITLE: Substituted indolizines and indenoindolizines
 AUTHOR(S): Prostakov, N. S.; Gaivoronskaya, L. A.; Anastassi, Rogiros; Sarata Mohomon, Kamara Maiga; Savina, A. A.
 CORPORATE SOURCE: Univ. Druzhb. Nar. im. Lummby, Moscow, USSR
 SOURCE: Khimiya Geterotsiklicheskh Soedinenii (1979), (6), 794-8
 CODEN: KGSSAQ; ISSN: 0453-8234
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 91:123620
 GI

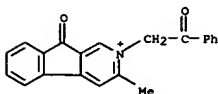


AB Reaction of pyridinium salts I (R = Ph, benzyl) with MeO2C.cplbond.CO2Me in the presence of Et3N gave 11-2% II. Indenoindolizines III and IV were prepared similarly in 17.5 and 70% yield, resp. Treatment of 9-oxo-3-methyl-2-phenacyl-2-azafuorenium bromide with K2CO3 gave 67% 5-oxo-2-phenylindeno[2,3-f]indolizine, which was converted to V by treatment with Br2O.
 IT 34937-56-9 54485-87-9 59647-41-5
 71348-83-9
 RL: RCT (Reactant); RACT (Reactant or reagent) (cycloaddn. reaction of, with di-Me acetylenedicarboxylate)
 RN 34937-56-9 CAPLUS
 CN 9H-Indeno[2,1-c]pyridinium, 3-methyl-2-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 64 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 ester (9CI) (CA INDEX NAME)

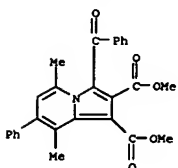


IT 71348-86-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)
 RN 71348-86-2 CAPLUS
 CN 9H-Indeno[2,1-c]pyridinium, 3-methyl-9-oxo-2-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



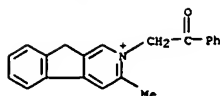
● Br⁻

IT 71348-79-3P 71348-80-6P 71348-81-7P
 71348-87-3P 71348-88-4P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 71348-79-3 CAPLUS
 CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-5,8-dimethyl-7-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



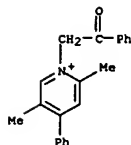
RN 71348-80-6 CAPLUS

L15 ANSWER 64 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



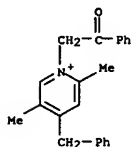
● Br⁻

RN 54485-87-9 CAPLUS
 CN Pyridinium, 2,5-dimethyl-1-(2-oxo-2-phenylethyl)-4-phenyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

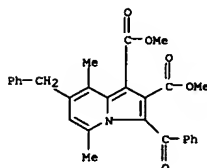
RN 59647-41-5 CAPLUS
 CN Pyridinium, 2,5-dimethyl-1-(2-oxo-2-phenylethyl)-4-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)



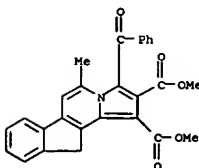
● Br⁻

RN 71348-83-9 CAPLUS
 CN 6H-Indeno[1,2-e]indolizine-2,3-dicarboxylic acid, 1-benzoyl-, dimethyl

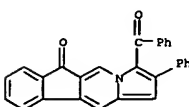
L15 ANSWER 64 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-5,8-dimethyl-7-(phenylmethyl)-, dimethyl ester (9CI) (CA INDEX NAME)



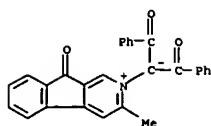
RN 71348-81-7 CAPLUS
 CN 11H-Indeno[1,2-g]indolizine-1,2-dicarboxylic acid, 3-benzoyl-5-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



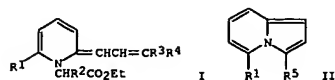
RN 71348-87-3 CAPLUS
 CN 6H-Indeno[2,1-f]indolizine-6-one, 3-benzoyl-2-phenyl- (9CI) (CA INDEX NAME)



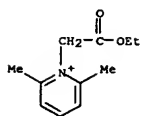
RN 71348-88-4 CAPLUS
 CN 9H-Indeno[2,1-c]pyridinium, 3-methyl-9-oxo-, 1-benzoyl-2-oxo-2-phenylethylide (9CI) (CA INDEX NAME)



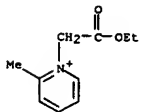
L15 ANSWER 65 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1979:6178 CAPLUS
 DOCUMENT NUMBER: 90:6178
 TITLE: Synthesis using allylidenedihydropyridines. 4.
 Novel
 AUTHOR(S): synthetic methods for indolizine derivatives
 Kakehi, Akikazu; Ito, Suketaka; Maeda, Toshiaki;
 Takeda, Ryoichi; Nishimura, Masao; Tamashima, Masato;
 Yamaguchi, Tetsuya
 CORPORATE SOURCE: Fac. Eng., Shinshu Univ., Nagano, Japan
 SOURCE: Journal of Organic Chemistry (1978), 43(25), 4837-40
 CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 90:6178
 GI



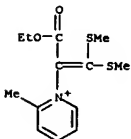
AB The thermolysis of 1,2-dihydropyridines I (R1 = H, Me; R2 = H, Me; R3 = Ac, CO2Et; R4 = CN, Ac) gave indolizines II (R1 = H, Me; R5 = CO2Et, Me), together with NCH2CO2Et and MeCOCH2COMe. The reactions of I with Ac2O or (EtCO)2O gave the corresponding 2-(acyloxy)-1-vinylindolizine derivs. in 41-83% yields, while those of 1-methyl- and 1-benzyl-2-allylidene-1,2-dihydropyridines with Ac2O did not give indolizines but gave the corresponding monoacetylated products in 47 and 36% yields, resp. In order to elucidate the mechanism of formation of the 2-(acyloxy)-1-vinylindolizines and the cyclization of 2-allylidene-1,2-dihydropyridines possessing a 1-[1-carbethoxy-2,2-bis(alkylthio)vinyl] substituent were attempted and the expected 1-vinylindolizines were obtained in comparatively good yields.
 IT 31778-09-3 58963-28-3 59181-95-2
 67988-75-4 67988-76-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (condensation reaction with 2-acylvinyl Et ethers)
 RN 31778-09-3 CAPLUS
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2,6-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

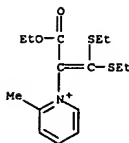
RN 58963-28-3 CAPLUS
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

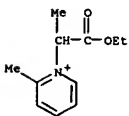
RN 59181-95-2 CAPLUS
 CN Pyridinium, 1-[1-(ethoxycarbonyl)-2,2-bis(methylthio)ethenyl]-2-methyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

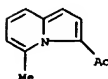
RN 67988-75-4 CAPLUS
 CN Pyridinium, 1-[1-(ethoxycarbonyl)-2,2-bis(ethylthio)ethenyl]-2-methyl-,

● I⁻

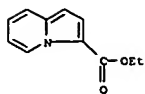
RN 67988-76-5 CAPLUS
 CN Pyridinium, 1-(2-ethoxy-1-methyl-2-oxoethyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

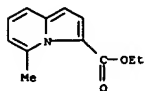
IT 31108-61-9P 55814-14-7P 65894-08-8P
 67988-71-0P 67988-72-1P 67988-73-2P
 67988-74-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 31108-61-9 CAPLUS
 CN Ethanone, 1-(5-methyl-3-indolizynyl)- (9CI) (CA INDEX NAME)



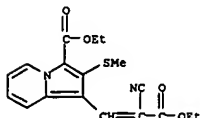
RN 55814-14-7 CAPLUS
 CN 3-Indolizinecarboxylic acid, ethyl ester (9CI) (CA INDEX NAME)



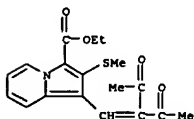
RN 65894-08-8 CAPLUS
CN 3-Indolizinecarboxylic acid, 5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 67988-71-0 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-(2-cyano-3-ethoxy-3-oxo-1-propenyl)-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

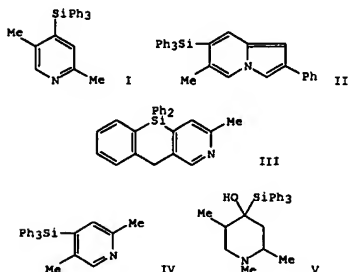


RN 67988-72-1 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-(2-acetyl-3-oxo-1-butenyl)-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

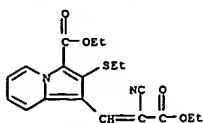


RN 67988-73-2 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-(2-cyano-3-ethoxy-3-oxo-1-propenyl)-2-(ethylthio)-, ethyl ester (9CI) (CA INDEX NAME)

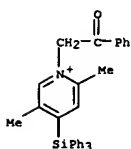
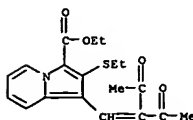
L15 ANSWER 66 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:509696 CAPLUS
DOCUMENT NUMBER: 89:109696
TITLE: Silyl-substituted pyridine bases, silyl-substituted indolizines, and dihydrosilazaanthracenes
AUTHOR(S): Varlamov, A. V.; Protskov, N. S.; Vichkanova, S. A.; Adgina, V. V.; Irosimova, S. B.
CORPORATE SOURCE: Univ. Druzhby Nar. im. Lummby, Moscow, USSR
SOURCE: Biol. Akt. Soedin. Elem. IV B Gruppy (1977), 47-53. Akad. Nauk SSSR, Sib. Otd., Irkutsk. Inst. Org.
Khim.: Irkutsk, USSR.
CODEN: 380BA2
DOCUMENT TYPE: Conference
LANGUAGE: Russian
GI



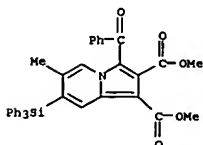
AB The title compds. e.g. I-III were prepared. Thus, catalytic dehydrocyclization of IV at 520° gave III. Some silylpiperidinols (e.g. V) were tested for their bactericidal, and protozoicidal activity against e.g. staphylococcus aureus, candida albicans and trichomonas vaginalis.
IT 67433-77-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 67433-77-6 CAPLUS
CN Pyridinium, 3,6-dimethyl-1-(2-oxo-2-phenylethyl)-4-(triphenylsilyl)-, bromide (9CI) (CA INDEX NAME)



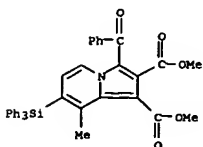
RN 67988-74-3 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-(2-acetyl-3-oxo-1-butenyl)-2-(ethylthio)-, ethyl ester (9CI) (CA INDEX NAME)



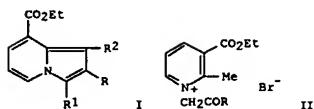
IT 67433-81-2P 67433-82-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 67433-81-2 CAPLUS
CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-6-methyl-7-(triphenylsilyl)-, dimethyl ester (9CI) (CA INDEX NAME)



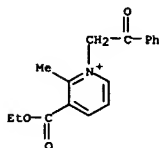
RN 67433-82-3 CAPLUS
CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-8-methyl-7-(triphenylsilyl)-, dimethyl ester (9CI) (CA INDEX NAME)



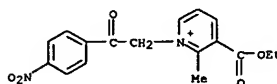
ACCESSION NUMBER: 1978:508995 CAPLUS
 DOCUMENT NUMBER: 89:108995
 TITLE: Indolizines. V. Synthesis and properties of 2-methyl(aryl)-8-carbethoxyindolizines
 AUTHOR(S): Loseva, T. S.; Goizman, M. S.; Alekseeva, L. M.; Shvarts, O. R.; Mikhlin, E. E.; Yakhontov, L. N.
 CORPORATE SOURCE: Vses. Nauchno-Issled. Khim.-Farm. Inst., Moscow, USSR
 SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1978), (6), 802-8
 CODEN: KGSSAQ; ISSN: 0453-8234
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI



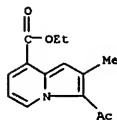
AB Indolizines I (R = Me, Ph, p-tolyl, p-MeOC6H4; R1 = Ac, CHO, Bz, NO, CH2NMe2, morpholinomethyl; R2 = H, morpholinomethyl) were prepared in 35-86% yield from I (R1 = R2 = H) by 6 different methods, e.g., Mannich reaction or electrophilic substitution. I (R1 = R2 = H) were prepared from pyridinium salts II. The NMR of the prepared compds. was discussed.
 There was a correlation of pKa with Hammett σ consts. for I (R = aryl, R1 = R2 = H).
 IT 67557-44-2P 67557-45-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclization of)
 RN 67557-44-2 CAPLUS
 CN Pyridinium, 3-(ethoxycarbonyl)-2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



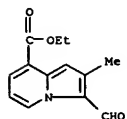
RN 67557-45-3 CAPLUS
 CN Pyridinium, 3-(ethoxycarbonyl)-2-methyl-1-[2-(4-nitrophenyl)-2-oxoethyl]-, bromide (9CI) (CA INDEX NAME)



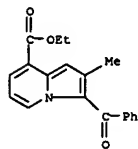
IT 36944-75-9P 67557-20-4P 67557-21-5P
 67557-23-7P 67557-24-8P 67557-28-2P
 67557-29-3P 67557-35-1P 67557-36-2P
 67557-37-3P 67557-40-8P
 RL: FRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation and properties of)
 RN 36944-75-9 CAPLUS
 CN 8-Indolizinecarboxylic acid, 3-acetyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



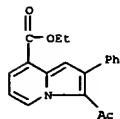
RN 67557-20-4 CAPLUS
 CN 8-Indolizinecarboxylic acid, 3-formyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



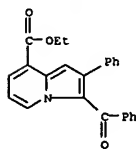
RN 67557-21-5 CAPLUS
 CN 8-Indolizinecarboxylic acid, 3-benzoyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



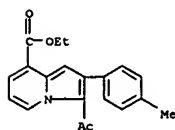
RN 67557-23-7 CAPLUS
 CN 8-Indolizinecarboxylic acid, 3-acetyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



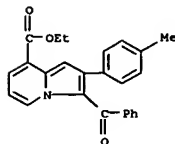
RN 67557-24-8 CAPLUS
 CN 8-Indolizinecarboxylic acid, 3-benzoyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



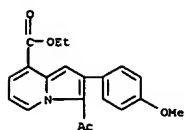
RN 67557-28-2 CAPLUS
 CN 8-Indolizinecarboxylic acid, 3-acetyl-2-(4-methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



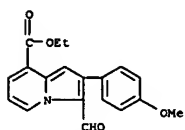
RN 67557-29-3 CAPLUS
 CN 8-Indolizinecarboxylic acid, 3-benzoyl-2-(4-methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



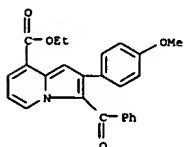
RN 67557-35-1 CAPLUS
 CN 8-Indolizinecarboxylic acid, 3-acetyl-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 67557-36-2 CAPLUS
CN 8-Indolizinecarboxylic acid, 3-formyl-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

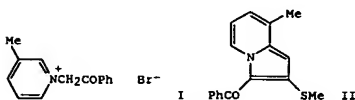


RN 67557-37-3 CAPLUS
CN 8-Indolizinecarboxylic acid, 3-benzoyl-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 67557-40-8 CAPLUS
CN 8-Indolizinecarboxylic acid, 3-benzoyl-2-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)

L15 ANSWER 68 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:22552 CAPLUS
DOCUMENT NUMBER: 88:22552
TITLE: Reaction of pyridinium N-ylides with ketene thioacetal derivatives
AUTHOR(S): Tomimaga, Yoshinori; Miyake, Yoshinori; Fujito, Hiroshi; Kurata, Keiji; Awaya, Hiroyoshi; Matsuda, Yoshiro; Kobayashi, Goro
CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1977), 25(7), 1528-33
DOCUMENT TYPE: CODEN: CPBTAL; ISSN: 0009-2363
LANGUAGE: Journal
OTHER SOURCE(S): English
GI CASREACT 88:22552

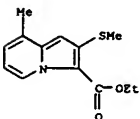


AB Reaction of the pyridinium N-ylides with ketenethioacetal in the presence of Et3N or K2CO3 as a base in EtOH or DMF gave the pyridinium N-allylides which readily cyclized to give the indolizine derivs. Thus, the pyridinium ylide I and (MeS)2C:CHNO2 gave the indolizine II.

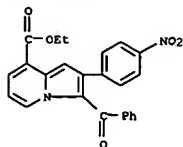
IT 64908-43-6P 64995-26-2P 64995-27-3P
64995-28-4P 64995-30-8P 64995-31-9P
64995-32-0P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

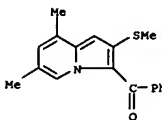
RN 64908-43-6 CAPLUS
CN 3-Indolizinecarboxylic acid, 8-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



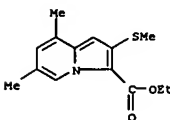
RN 64995-26-2 CAPLUS
CN Methanone, [8-methyl-2-(methylthio)-3-indoliziny]phenyl- (9CI) (CA INDEX NAME)



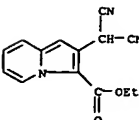
RN 64995-27-3 CAPLUS
CN Methanone, [6,8-dimethyl-2-(methylthio)-3-indoliziny]phenyl- (9CI) (CA INDEX NAME)



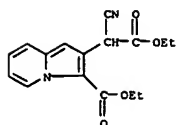
RN 64995-28-4 CAPLUS
CN 3-Indolizinecarboxylic acid, 6,8-dimethyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



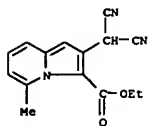
RN 64995-30-8 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-(dicyanomethyl)-, ethyl ester (9CI) (CA INDEX NAME)



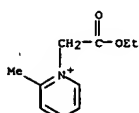
RN 64995-31-9 CAPLUS
CN 2-Indolizineacetic acid, alpha-cyano-3-(ethoxycarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



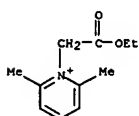
RN 64995-32-0 CAPLUS
CN 3-indolizinecarboxylic acid, 2-(dicyanomethyl)-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



IT 64995-41-1 64995-42-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with ketenethioacetals)
RN 64995-41-1 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl- (9CI) (CA INDEX NAME)



RN 64995-42-2 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2,6-dimethyl- (9CI) (CA INDEX NAME)

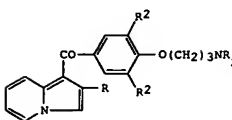
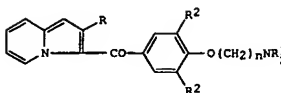


L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:6719 CAPLUS
DOCUMENT NUMBER: 88:6719
TITLE: Indolizine derivatives
INVENTOR(S): Gubin, Jean; Rosseels, Gilbert
PATENT ASSIGNEE(S): Labaz S. A., Fr.
SOURCE: Ger. Offen., 65 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------|------|----------|-----------------|------------|
| DE 2707048 | A1 | 19770901 | DE 1977-2707048 | 19770218 |
| DE 2707048 | C2 | 19831117 | | |
| GB 1518443 | A | 19780719 | GB 1976-6680 | 19760219 |
| FI 7700318 | A | 19770820 | FI 1977-318 | 19770131 |
| FI 61030 | B | 19820129 | | |
| FI 61030 | C | 19820510 | | |
| AT 7700920 | A | 19800115 | AT 1977-920 | 19770211 |
| AT 358035 | B | 19800811 | | |
| CH 617697 | A | 19800613 | CH 1977-1808 | 19770214 |
| FR 2341578 | A1 | 19770916 | FR 1977-4171 | 19770215 |
| FR 2341578 | B1 | 19800430 | | |
| BE 851463 | A1 | 19770816 | BE 1977-174955 | 19770216 |
| US 4103012 | A | 19780725 | US 1977-769332 | 19770216 |
| SU 674674 | D | 19790715 | SU 1977-2452005 | 19770216 |
| SE 7701771 | A | 19770820 | SE 1977-1771 | 19770217 |
| SE 420314 | B | 19810928 | | |
| SE 420314 | C | 19820114 | | |
| NL 7701678 | A | 19770823 | NL 1977-1678 | 19770217 |
| NL 164283 | B | 19800715 | | |
| NL 164283 | C | 19801215 | | |
| DD 131558 | C | 19780705 | DD 1977-197389 | 19770217 |
| AU 7722394 | A1 | 19780824 | AU 1977-22394 | 19770217 |
| PL 113904 | B1 | 19810131 | PL 1977-202797 | 19770217 |
| DK 7700726 | A | 19770820 | DK 1977-726 | 19770218 |
| DK 142622 | B | 19801201 | | |
| DK 142622 | C | 19810803 | | |
| NO 7700547 | A | 19770822 | NO 1977-547 | 19770218 |
| NO 145842 | B | 19820301 | | |
| NO 145842 | C | 19820609 | | |
| JP 52215193 | A2 | 19771020 | JP 1977-17689 | 19770218 |
| JP 55019234 | B4 | 19800524 | | |
| ZA 7701002 | A | 19771228 | ZA 1977-1002 | 19770218 |
| ES 456039 | A1 | 19780516 | ES 1977-456039 | 19770218 |
| CA 1071198 | A1 | 19800205 | CA 1977-272103 | 19770218 |
| HU 22954 | O | 19820728 | HU 1977-LA907 | 19770218 |
| HU 180492 | B | 19830328 | | |
| SU 715025 | D | 19800205 | SU 1977-2530249 | 19771012 |
| ES 467441 | A1 | 19781016 | ES 1978-467441 | 19780301 |
| AT 7900952 | A | 19800215 | AT 1979-952 | 19790208 |
| AT 358595 | B | 19800925 | | |
| CH 623322 | A | 19810529 | CH 1979-10680 | 19791130 |
| PRIORITY APPL. INFO.: | | | GB 1976-6680 | A 19760219 |
| | | | GB 1976-33314 | A 19760810 |
| | | | AT 1977-920 | A 19770211 |

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CH 1977-1808 A 19770214

OTHER SOURCE(S): MARPAT 88:6719
GI

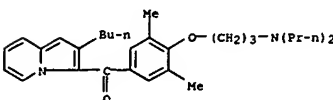


AB Aminoalkoxybenzoylindolizines I (R = Me, Et, Pr, CHMe2, Bu, pentyl, Ph, 4-FC6H4, 4-ClC6H4, 4-BrC6H4, 4-MeOC6H4, 2-BrC6H4, 3,4-Cl2C6H3, 3-BrC6H4, 3,4-Cl2MeC6H3, 4-MeC6H4; R1 = Me, Et, Pr, Bu; R2 = H, Me; n = 2-6) (74 compds.) and II (R = R1 = Pr, R2 = H, R = Et, R1 = Pr, Bu, R2 = H, Me) were prepared and had cardiac activity. Thus, 2-picoline was treated with ClCO2Et and cyclized with (EtCO)2O, 2-ethylindolizine treated with 4-(4-MeC6H4SO3)C6H4COCl, 2-ethyl-3-(4-tosyloxybenzoyl)indolizine detosylated, the hydroxybenzoylindolizine treated with Br(CH2)3Br and Bu2NH to give I (R = Et, R1 = Bu, R2 = H, n = 3), which at 10 mg/kg i.v. in dogs caused 37% decrease in heart rate.

IT 64577-87-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(cardiac activity of)

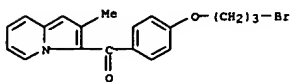
RN 64577-87-3 CAPLUS

CN Methanone, (2-butyl-3-indolizinyloxy)[4-{3-(dipropylamino)propoxy}-3,5-dimethylphenyl]- (9CI) (CA INDEX NAME)

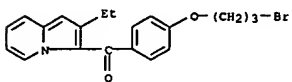


IT 64467-90-9P 64467-91-0P 64467-92-1P
64467-93-2P 64467-94-3P 64467-95-4P
64467-96-5P 64467-97-6P 64467-98-7P
64467-99-8P 64468-00-4P 64468-01-5P
64468-02-6P 64468-03-7P 64675-85-0P

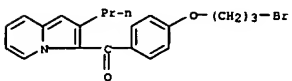
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 64676-53-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. and amination of)
 RN 64467-90-9 CAPLUS
 CN Methanone, [4-(3-bromopropoxy)phenyl] (2-methyl-3-indoliziny)- (9CI) (CA
 INDEX NAME)



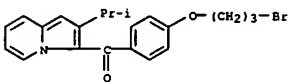
RN 64467-91-0 CAPLUS
 CN Methanone, [4-(3-bromopropoxy)phenyl] (2-ethyl-3-indoliziny)- (9CI) (CA
 INDEX NAME)



RN 64467-92-1 CAPLUS
 CN Methanone, [4-(3-bromopropoxy)phenyl] (2-propyl-3-indoliziny)- (9CI) (CA
 INDEX NAME)



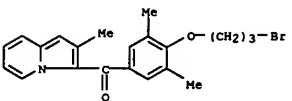
RN 64467-93-2 CAPLUS
 CN Methanone, [4-(3-bromopropoxy)phenyl] (2-(1-methylethyl)-3-indoliziny)-
 (9CI) (CA INDEX NAME)



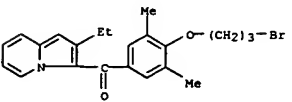
RN 64467-94-3 CAPLUS
 CN Methanone, [4-(3-bromopropoxy)phenyl] (2-butyl-3-indoliziny)- (9CI) (CA
 INDEX NAME)

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

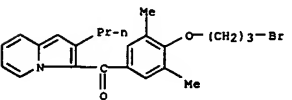
RN 64467-99-8 CAPLUS
 CN Methanone,
 [4-(3-bromopropoxy)-3,5-dimethylphenyl] (2-methyl-3-indoliziny)-
 (9CI) (CA INDEX NAME)



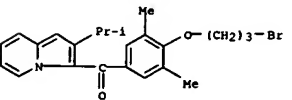
RN 64468-00-4 CAPLUS
 CN Methanone,
 [4-(3-bromopropoxy)-3,5-dimethylphenyl] (2-ethyl-3-indoliziny)-
 (9CI) (CA INDEX NAME)



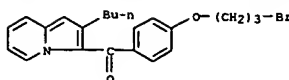
RN 64468-01-5 CAPLUS
 CN Methanone,
 [4-(3-bromopropoxy)-3,5-dimethylphenyl] (2-propyl-3-indoliziny)-
 (9CI) (CA INDEX NAME)



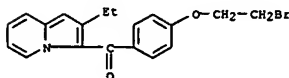
RN 64468-02-6 CAPLUS
 CN Methanone, [4-(3-bromopropoxy)-3,5-dimethylphenyl] (2-(1-methylethyl)-3-
 indoliziny)- (9CI) (CA INDEX NAME)



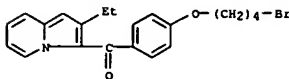
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



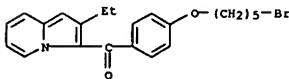
RN 64467-95-4 CAPLUS
 CN Methanone, [4-(2-bromoethoxy)phenyl] (2-ethyl-3-indoliziny)- (9CI) (CA
 INDEX NAME)



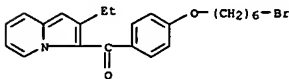
RN 64467-96-5 CAPLUS
 CN Methanone, [4-(4-bromobutoxy)phenyl] (2-ethyl-3-indoliziny)- (9CI) (CA
 INDEX NAME)



RN 64467-97-6 CAPLUS
 CN Methanone, [4-[(5-bromopentyl)oxy]phenyl] (2-ethyl-3-indoliziny)- (9CI)
 (CA INDEX NAME)

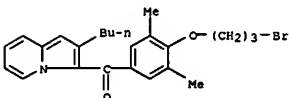


RN 64467-98-7 CAPLUS
 CN Methanone, [4-[(6-bromohexyl)oxy]phenyl] (2-ethyl-3-indoliziny)- (9CI)
 (CA INDEX NAME)

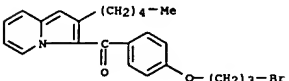


L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

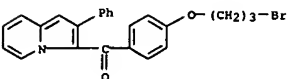
RN 64468-03-7 CAPLUS
 CN Methanone,
 [4-(3-bromopropoxy)-3,5-dimethylphenyl] (2-butyl-3-indoliziny)-
 (9CI) (CA INDEX NAME)



RN 64675-85-0 CAPLUS
 CN Methanone, [4-(3-bromopropoxy)phenyl] (2-pentyl-3-indoliziny)- (9CI) (CA
 INDEX NAME)

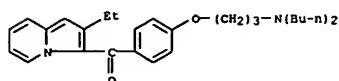


RN 64676-53-5 CAPLUS
 CN Methanone, [4-(3-bromopropoxy)phenyl] (2-phenyl-3-indoliziny)- (9CI) (CA
 INDEX NAME)

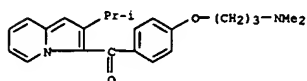


IT 62228-20-0P 64466-95-1P 64675-87-2P
 64675-88-3P 64675-89-4P 64675-90-7P
 64675-91-8P 64675-92-9P 64675-93-0P
 64675-94-1P 64675-95-2P 64675-96-3P
 64675-97-4P 64675-98-5P 64675-99-6P
 64676-00-2P 64676-01-3P 64676-02-4P
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 64677-05-0P 64677-07-2P 64704-61-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)

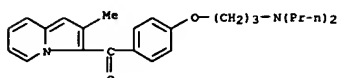
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 (prepn. and cardiac activity of)
 RN 62228-20-0 CAPLUS
 CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl](2-ethyl-3-indoliziny)-
 (9CI) (CA INDEX NAME)



RN 64466-95-1 CAPLUS
 CN Methanone, [4-[3-(dimethylamino)propoxy]phenyl](2-(1-methylethyl)-3-indoliziny)- (9CI) (CA INDEX NAME)

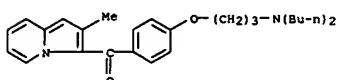


RN 64675-87-2 CAPLUS
 CN Methanone, [4-[3-(dipropylamino)propoxy]phenyl](2-methyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



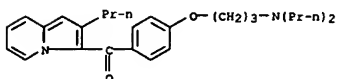
●x HCl

RN 64675-88-3 CAPLUS
 CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl](2-methyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



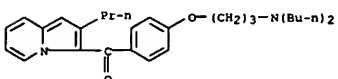
●x HCl

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



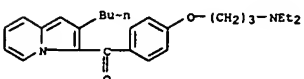
●x HCl

RN 64675-93-0 CAPLUS
 CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl](2-propyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



●x HCl

RN 64675-94-1 CAPLUS
 CN Methanone, (2-butyl-3-indoliziny)[4-[3-(diethylamino)propoxy]phenyl]-, hydrochloride (9CI) (CA INDEX NAME)

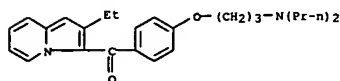


●x HCl

RN 64675-95-2 CAPLUS
 CN Methanone, (2-butyl-3-indoliziny)[4-[3-(dipropylamino)propoxy]phenyl]-, hydrochloride (9CI) (CA INDEX NAME)

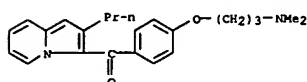
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 64675-89-4 CAPLUS
 CN Methanone, [4-[3-(dipropylamino)propoxy]phenyl](2-ethyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



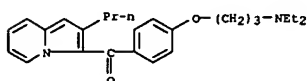
●x HCl

RN 64675-90-7 CAPLUS
 CN Methanone, [4-[3-(dimethylamino)propoxy]phenyl](2-propyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



●x HCl

RN 64675-91-8 CAPLUS
 CN Methanone, [4-[3-(diethylamino)propoxy]phenyl](2-propyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)

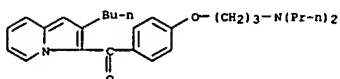


●x HCl

RN 64675-92-9 CAPLUS
 CN Methanone, [4-[3-(dipropylamino)propoxy]phenyl](2-propyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)

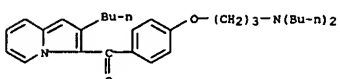


L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



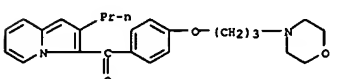
●x HCl

RN 64675-96-3 CAPLUS
 CN Methanone, (2-butyl-3-indoliziny)[4-[3-(dibutylamino)propoxy]phenyl]-, hydrochloride (9CI) (CA INDEX NAME)



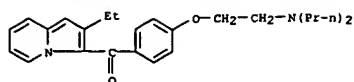
●x HCl

RN 64675-97-4 CAPLUS
 CN Methanone, [4-[3-(4-morpholinyl)propoxy]phenyl](2-propyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



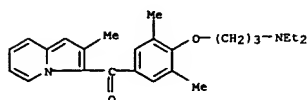
●x HCl

RN 64675-98-5 CAPLUS
 CN Methanone, [4-[2-(dipropylamino)ethoxy]phenyl](2-ethyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



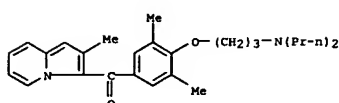
● x HCl

RN 64675-99-6 CAPLUS
CN Methanone, [4-{3-(diethylamino)propoxy}-3,5-dimethylphenyl](2-methyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



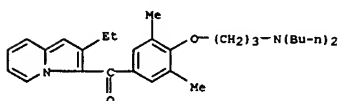
● x HCl

RN 64676-00-2 CAPLUS
CN Methanone, [4-{3-(dipropylamino)propoxy}-3,5-dimethylphenyl](2-methyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



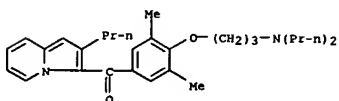
● x HCl

RN 64676-01-3 CAPLUS
CN Methanone, [4-{3-(dibutylamino)propoxy}-3,5-dimethylphenyl](2-methyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



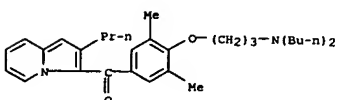
● x HCl

RN 64676-05-7 CAPLUS
CN Methanone, [4-{3-(dipropylamino)propoxy}-3,5-dimethylphenyl](2-propyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



● x HCl

RN 64676-06-8 CAPLUS
CN Methanone, [4-{3-(dibutylamino)propoxy}-3,5-dimethylphenyl](2-propyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)

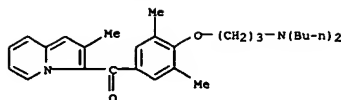


● x HCl

RN 64676-08-0 CAPLUS
CN Methanone, [4-{2-(dibutylamino)ethoxy}phenyl](2-ethyl-3-indoliziny)-, ethanedioate (9CI) (CA INDEX NAME)

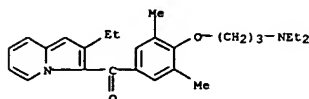
CM 1

CRN 64466-74-6
CMF C27 H36 N2 O2



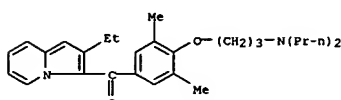
● x HCl

RN 64676-02-4 CAPLUS
CN Methanone, [4-{3-(diethylamino)propoxy}-3,5-dimethylphenyl](2-ethyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



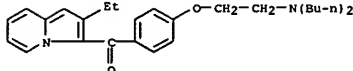
● x HCl

RN 64676-03-5 CAPLUS
CN Methanone, [4-{3-(dipropylamino)propoxy}-3,5-dimethylphenyl](2-ethyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



● x HCl

RN 64676-04-6 CAPLUS
CN Methanone, [4-{3-(dibutylamino)propoxy}-3,5-dimethylphenyl](2-ethyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



CM 2

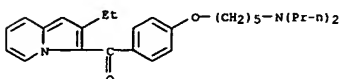
CRN 144-62-7
CMF C2 H2 O4



RN 64676-09-1 CAPLUS
CN Methanone, [4-{[5-(dipropylamino)pentyl]oxy}phenyl](2-ethyl-3-indoliziny)-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64466-80-4
CMF C28 H38 N2 O2



CM 2

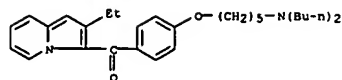
CRN 144-62-7
CMF C2 H2 O4



RN 64676-10-4 CAPLUS
CN Methanone, [4-{[5-(dibutylamino)pentyl]oxy}phenyl](2-ethyl-3-indoliziny)-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64466-82-6
CMF C30 H42 N2 O2

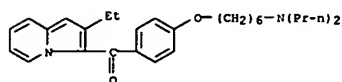


CH 2
CRN 144-62-7
CMF C2 H2 O4



RN 64676-12-6 CAPLUS
CN Methanone, [4-[[6-(dipropylamino)hexyl]oxy]phenyl] (2-ethyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CH 1
CRN 64466-84-8
CMF C29 H40 N2 O2

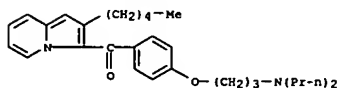


CH 2
CRN 144-62-7
CMF C2 H2 O4



RN 64676-13-7 CAPLUS
CN Methanone, [4-[[4-(dipropylamino)butoxy]phenyl] (2-ethyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CH 1
CRN 64466-76-8

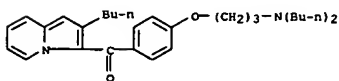


CH 2
CRN 144-62-7
CMF C2 H2 O4



RN 64676-23-9 CAPLUS
CN Methanone, [2-butyl-3-indolizinyloxy] [4-[[3-(dibutylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CH 1
CRN 64676-22-8
CMF C30 H42 N2 O2

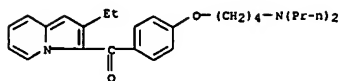


CH 2
CRN 144-62-7
CMF C2 H2 O4



RN 64676-55-7 CAPLUS
CN Methanone, [4-[[3-(dibutylamino)propoxy]phenyl] (2-phenyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CH 1
CRN 64676-54-6

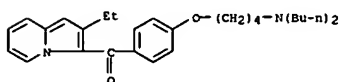


CH 2
CRN 144-62-7
CMF C2 H2 O4



RN 64676-14-8 CAPLUS
CN Methanone, [4-[[4-(dibutylamino)butoxy]phenyl] (2-ethyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CH 1
CRN 64466-78-0
CMF C29 H40 N2 O2

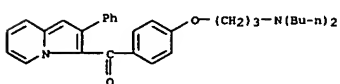


CH 2
CRN 144-62-7
CMF C2 H2 O4



RN 64676-18-2 CAPLUS
CN Methanone, [4-[[3-(dipropylamino)propoxy]phenyl] (2-pentyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CH 1
CRN 64676-17-1

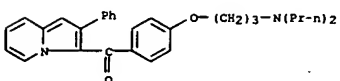


CH 2
CRN 144-62-7
CMF C2 H2 O4



RN 64676-57-9 CAPLUS
CN Methanone, [4-[[3-(dipropylamino)propoxy]phenyl] (2-phenyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CH 1
CRN 64676-56-8
CMF C30 H34 N2 O2



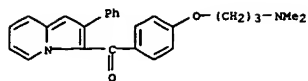
CH 2
CRN 144-62-7
CMF C2 H2 O4



RN 64676-59-1 CAPLUS
CN Methanone, [4-[[3-(dimethylamino)propoxy]phenyl] (2-phenyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CH 1
CRN 64676-58-0

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CMF C26 H26 N2 O2



CM 2

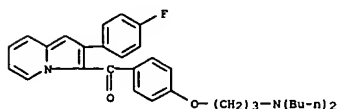
CRN 144-62-7
CMF C2 H2 O4



RN 64676-61-5 CAPLUS
CM Methanone, [4-[3-(dibutylamino)propoxy]phenyl][2-(4-fluorophenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-60-4
CMF C32 H37 F N2 O2



CM 2

CRN 144-62-7
CMF C2 H2 O4



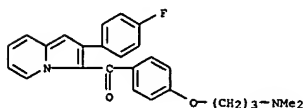
RN 64676-63-7 CAPLUS
CM Methanone, [4-[3-(dipropylamino)propoxy]phenyl][2-(4-fluorophenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CM Methanone, [4-[3-(dimethylamino)propoxy]phenyl][2-(4-fluorophenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-66-0
CMF C26 H25 F N2 O2



CM 2

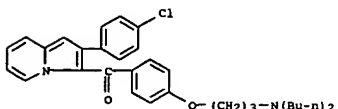
CRN 144-62-7
CMF C2 H2 O4



RN 64676-69-3 CAPLUS
CM Methanone, [2-(4-chlorophenyl)-3-indoliziny][4-[3-(dibutylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-68-2
CMF C32 H37 Cl N2 O2

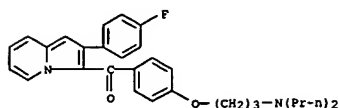


CM 2

CRN 144-62-7
CMF C2 H2 O4

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CRN 64676-62-6
CMF C30 H33 F N2 O2



CM 2

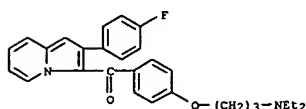
CRN 144-62-7
CMF C2 H2 O4



RN 64676-65-9 CAPLUS
CM Methanone, [4-[3-(diethylamino)propoxy]phenyl][2-(4-fluorophenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-64-8
CMF C28 H29 F N2 O2



CM 2

CRN 144-62-7
CMF C2 H2 O4



RN 64676-67-1 CAPLUS

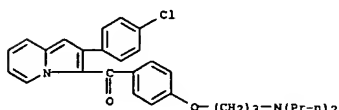
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 64676-71-7 CAPLUS
CM Methanone, [2-(4-chlorophenyl)-3-indoliziny][4-[3-(dipropylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-70-6
CMF C30 H33 Cl N2 O2



CM 2

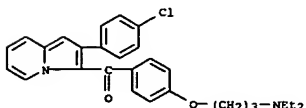
CRN 144-62-7
CMF C2 H2 O4



RN 64676-73-9 CAPLUS
CM Methanone, [2-(4-chlorophenyl)-3-indoliziny][4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-72-8
CMF C28 H29 Cl N2 O2



CM 2

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

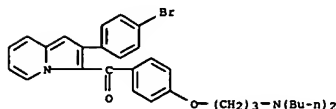
CRN 144-62-7
CMF C2 H2 O4



RN 64676-77-3 CAPLUS
CN Methanone, [2-(4-bromophenyl)-3-indoliziny][4-[3-(dibutylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-76-2
CMF C32 H37 Br N2 O2



CM 2

CRN 144-62-7
CMF C2 H2 O4



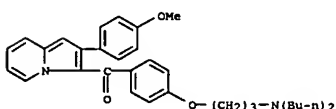
RN 64676-79-5 CAPLUS
CN Methanone, [2-(4-bromophenyl)-3-indoliziny][4-[3-(dipropylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-78-4
CMF C30 H33 Br N2 O2

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CRN 64676-84-2
CMF C33 H40 N2 O3



CM 2

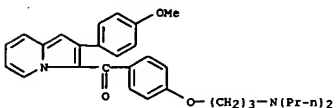
CRN 144-62-7
CMF C2 H2 O4



RN 64676-87-5 CAPLUS
CN Methanone, [4-[3-(dipropylamino)propoxy]phenyl][2-(4-methoxyphenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-86-4
CMF C31 H36 N2 O3



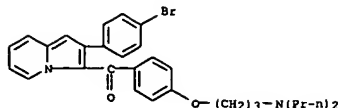
CM 2

CRN 144-62-7
CMF C2 H2 O4



RN 64676-91-1 CAPLUS

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 2

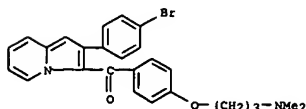
CRN 144-62-7
CMF C2 H2 O4



RN 64676-83-1 CAPLUS
CN Methanone, [2-(4-bromophenyl)-3-indoliziny][4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-82-0
CMF C26 H25 Br N2 O2



CM 2

CRN 144-62-7
CMF C2 H2 O4



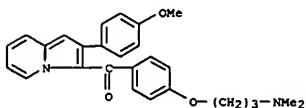
RN 64676-85-3 CAPLUS
CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl][2-(4-methoxyphenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN Methanone, [4-[3-(dimethylamino)propoxy]phenyl][2-(4-methoxyphenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-90-0
CMF C27 H28 N2 O3



CM 2

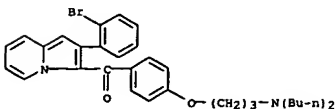
CRN 144-62-7
CMF C2 H2 O4



RN 64676-93-3 CAPLUS
CN Methanone, [2-(2-bromophenyl)-3-indoliziny][4-[3-(dibutylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-92-2
CMF C32 H37 Br N2 O2



CM 2

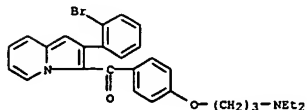
CRN 144-62-7
CMF C2 H2 O4



RN 64676-97-7 CAPLUS
CN Methanone, [2-(2-bromophenyl)-3-indoliziny][4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-96-6
CMF C28 H29 Br N2 O2



CM 2

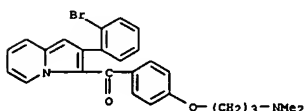
CRN 144-62-7
CMF C2 H2 O4



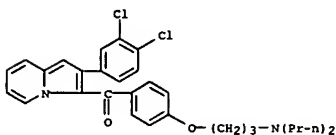
RN 64676-99-9 CAPLUS
CN Methanone, [2-(2-bromophenyl)-3-indoliziny][4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-98-8
CMF C26 H25 Br N2 O2



CM 2



CM 2

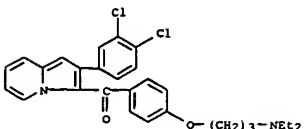
CRN 144-62-7
CMF C2 H2 O4



RN 64677-05-0 CAPLUS
CN Methanone, [2-(3,4-dichlorophenyl)-3-indoliziny][4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64677-04-9
CMF C28 H28 Cl2 N2 O2



CM 2

CRN 144-62-7
CMF C2 H2 O4



RN 64677-07-2 CAPLUS
CN Methanone, [2-(3,4-dichlorophenyl)-3-indoliziny][4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

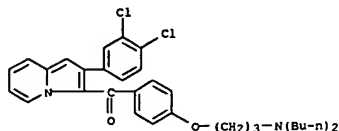
CRN 144-62-7
CMF C2 H2 O4



RN 64677-01-6 CAPLUS
CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl][2-(3,4-dichlorophenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64677-00-5
CMF C32 H36 Cl2 N2 O2



CM 2

CRN 144-62-7
CMF C2 H2 O4



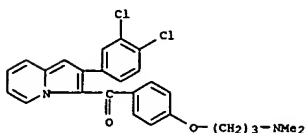
RN 64677-03-8 CAPLUS
CN Methanone, [2-(3,4-dichlorophenyl)-3-indoliziny][4-[3-(dipropylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64677-02-7
CMF C30 H32 Cl2 N2 O2

CM 1

CRN 64677-06-1
CMF C26 H24 Cl2 N2 O2



CM 2

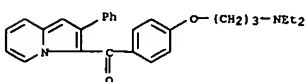
CRN 144-62-7
CMF C2 H2 O4



RN 64704-61-6 CAPLUS
CN Methanone, [4-[3-(diethylamino)propoxy]phenyl][2-phenyl-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64704-60-5
CMF C28 H30 N2 O2

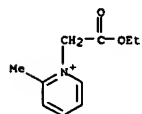


CM 2

CRN 144-62-7
CMF C2 H2 O4

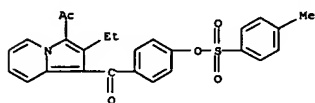


L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 IT 58963-28-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclization of, with propionic anhydride)
 RN 58963-28-3 CAPLUS
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)

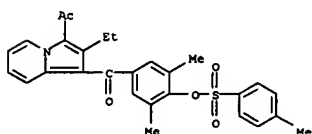


• Cl⁻

IT 64467-72-7P 64467-73-8P 64467-74-9P
 64467-75-0P 64676-24-0P 64676-25-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and deacetylation of)
 RN 64467-72-7 CAPLUS
 CN Ethanone, 1-[2-ethyl-1-[4-[[[(4-methylphenyl)sulfonyl]oxy]benzoyl]-3-indoliziny]]- (9CI) (CA INDEX NAME)

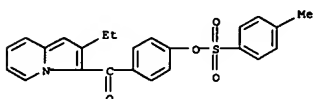


RN 64467-73-8 CAPLUS
 CN Ethanone, 1-[1-[3,5-dimethyl-4-[[[(4-methylphenyl)sulfonyl]oxy]benzoyl]-2-ethyl-3-indoliziny]]- (9CI) (CA INDEX NAME)

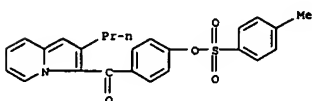


RN 64467-74-9 CAPLUS

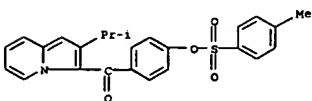
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 64676-34-2P 64676-35-3P 64676-36-4P
 64676-37-5P 64676-38-6P 64676-39-7P
 64676-40-0P 64676-41-1P 64676-42-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and deosylation of)
 RN 64467-11-4 CAPLUS
 CN Methanone, [2-ethyl-3-indoliziny]] [4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-ethyl-3-indoliziny]]- (9CI) (CA INDEX NAME)



RN 64467-12-5 CAPLUS
 CN Methanone, [4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-propyl-3-indoliziny]]- (9CI) (CA INDEX NAME)

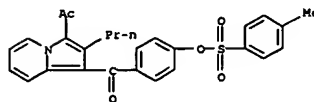


RN 64467-13-6 CAPLUS
 CN Methanone, [2-(1-methylethyl)-3-indoliziny]] [4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-ethyl-3-indoliziny]]- (9CI) (CA INDEX NAME)

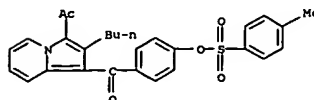


RN 64467-14-7 CAPLUS
 CN Methanone, [2-butyl-3-indoliziny]] [4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-ethyl-3-indoliziny]]- (9CI) (CA INDEX NAME)

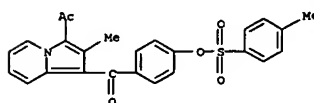
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN Ethanone, 1-[1-[4-[[[(4-methylphenyl)sulfonyl]oxy]benzoyl]-2-propyl-3-indoliziny]]- (9CI) (CA INDEX NAME)



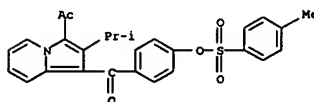
RN 64467-75-0 CAPLUS
 CN Ethanone, 1-[2-butyl-1-[4-[[[(4-methylphenyl)sulfonyl]oxy]benzoyl]-3-indoliziny]]- (9CI) (CA INDEX NAME)



RN 64676-24-0 CAPLUS
 CN Ethanone, 1-[2-methyl-1-[4-[[[(4-methylphenyl)sulfonyl]oxy]benzoyl]-3-indoliziny]]- (9CI) (CA INDEX NAME)

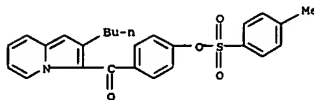


RN 64676-25-1 CAPLUS
 CN Ethanone, 1-[2-(1-methylethyl)-1-[4-[[[(4-methylphenyl)sulfonyl]oxy]benzoyl]-3-indoliziny]]- (9CI) (CA INDEX NAME)

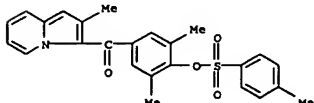


IT 64467-11-4P 64467-12-5P 64467-13-6P
 64467-14-7P 64467-15-8P 64467-16-9P
 64467-17-0P 64467-65-8P 64467-66-9P
 64596-94-7P 64675-82-7P 64676-33-1P

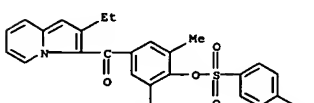
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



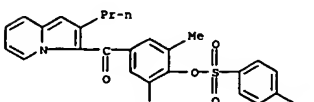
RN 64467-15-8 CAPLUS
 CN Methanone, [3,5-dimethyl-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-methyl-3-indoliziny]]- (9CI) (CA INDEX NAME)



RN 64467-16-9 CAPLUS
 CN Methanone, [3,5-dimethyl-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-ethyl-3-indoliziny]]- (9CI) (CA INDEX NAME)

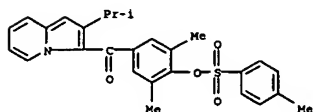


RN 64467-17-0 CAPLUS
 CN Methanone, [3,5-dimethyl-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-propyl-3-indoliziny]]- (9CI) (CA INDEX NAME)

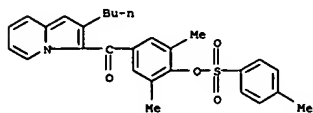


RN 64467-65-8 CAPLUS
 CN Methanone, [3,5-dimethyl-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-(1-

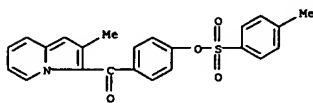
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
methylethyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



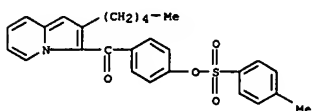
RN 64467-66-9 CAPLUS
CN Methanone, 3-(2-butyl-3-indoliziny)-3-indoliziny]- (9CI) (CA INDEX NAME)



RN 64596-94-7 CAPLUS
CN Methanone, (2-methyl-3-indoliziny)-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)

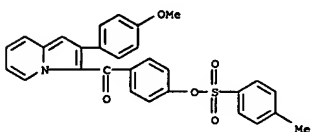


RN 64675-82-7 CAPLUS
CN Methanone, [4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-pentyl-3-indoliziny)- (9CI) (CA INDEX NAME)

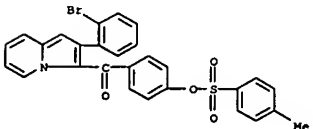


RN 64676-33-1 CAPLUS
CN Methanone, [4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-phenyl-3-

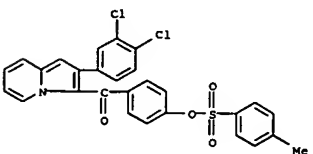
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RN 64676-37-5 CAPLUS
CN Methanone, [2-(4-methoxyphenyl)-3-indoliziny]-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



RN 64676-38-6 CAPLUS
CN Methanone, [2-(2-bromophenyl)-3-indoliziny]-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)

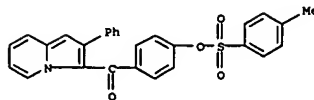


RN 64676-39-7 CAPLUS
CN Methanone, [2-(3,4-dichlorophenyl)-3-indoliziny]-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)

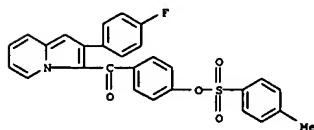


RN 64676-40-0 CAPLUS
CN Methanone, [2-(3-bromophenyl)-3-indoliziny]-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)

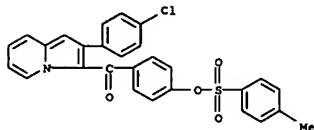
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
indoliziny]- (9CI) (CA INDEX NAME)



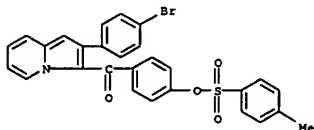
RN 64676-34-2 CAPLUS
CN Methanone, [2-(4-fluorophenyl)-3-indoliziny]-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



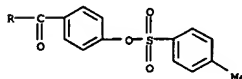
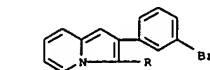
RN 64676-35-3 CAPLUS
CN Methanone, [2-(4-chlorophenyl)-3-indoliziny]-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



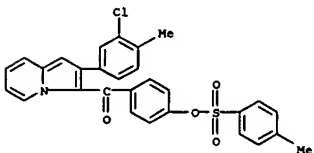
RN 64676-36-4 CAPLUS
CN Methanone, [2-(4-bromophenyl)-3-indoliziny]-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



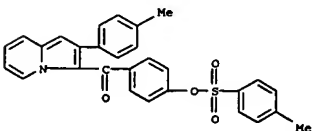
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 64676-41-1 CAPLUS
CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indoliziny]-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)

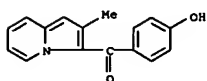


RN 64676-42-2 CAPLUS
CN Methanone, [2-(4-methylphenyl)-3-indoliziny]-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)

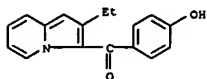


IT 64466-52-0P 64466-53-1P 64466-54-2P
64466-55-3P 64466-56-4P 64466-57-5P
64466-58-6P 64466-59-7P 64466-60-0P
64466-61-1P 64466-62-2P 64466-63-3P
64466-64-4P 64466-65-5P 64466-66-6P
64466-67-7P 64466-68-8P 64466-69-9P
64466-70-0P 64466-71-1P 64466-72-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

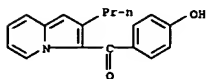
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 (prepn. and reaction of, with dibromopropane)
 RN 64466-52-0 CAPLUS
 CN Methanone, (4-hydroxyphenyl) (2-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)



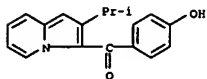
RN 64466-53-1 CAPLUS
 CN Methanone, (2-ethyl-3-indoliziny)- (4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



RN 64466-54-2 CAPLUS
 CN Methanone, (4-hydroxyphenyl) (2-propyl-3-indoliziny)- (9CI) (CA INDEX NAME)

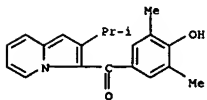


RN 64466-55-3 CAPLUS
 CN Methanone, (4-hydroxyphenyl) [2-(1-methylethyl)-3-indoliziny]- (9CI) (CA INDEX NAME)

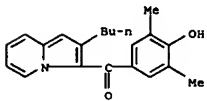


RN 64466-56-4 CAPLUS
 CN Methanone, (2-butyl-3-indoliziny)- (4-hydroxyphenyl)- (9CI) (CA INDEX NAME)

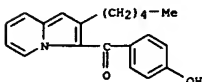
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



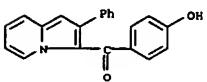
RN 64466-61-1 CAPLUS
 CN Methanone, (2-butyl-3-indoliziny)- (4-hydroxy-3,5-dimethylphenyl)- (9CI) (CA INDEX NAME)



RN 64675-84-9 CAPLUS
 CN Methanone, (4-hydroxyphenyl) (2-pentyl-3-indoliziny)- (9CI) (CA INDEX NAME)

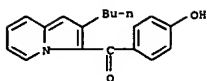


RN 64676-43-3 CAPLUS
 CN Methanone, (4-hydroxyphenyl) (2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)

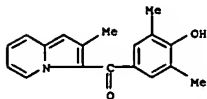


RN 64676-44-4 CAPLUS
 CN Methanone, [2-(4-fluorophenyl)-3-indoliziny]- (4-hydroxyphenyl)- (9CI) (CA INDEX NAME)

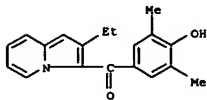
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



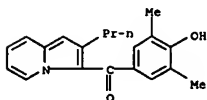
RN 64466-57-5 CAPLUS
 CN Methanone, (4-hydroxy-3,5-dimethylphenyl) (2-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 64466-58-6 CAPLUS
 CN Methanone, (2-ethyl-3-indoliziny)- (4-hydroxy-3,5-dimethylphenyl)- (9CI) (CA INDEX NAME)

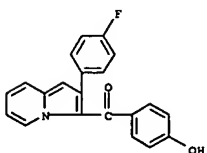


RN 64466-59-7 CAPLUS
 CN Methanone, (4-hydroxy-3,5-dimethylphenyl) (2-propyl-3-indoliziny)- (9CI) (CA INDEX NAME)

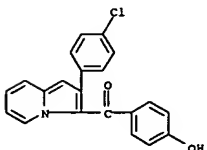


RN 64466-60-0 CAPLUS
 CN Methanone, (4-hydroxy-3,5-dimethylphenyl) [2-(1-methylethyl)-3-indoliziny]- (9CI) (CA INDEX NAME)

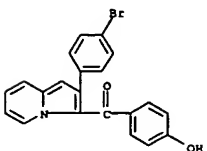
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



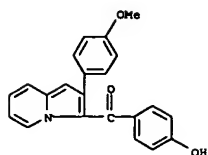
RN 64676-45-5 CAPLUS
 CN Methanone, [2-(4-chlorophenyl)-3-indoliziny]- (4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



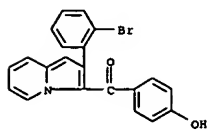
RN 64676-46-6 CAPLUS
 CN Methanone, [2-(4-bromophenyl)-3-indoliziny]- (4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



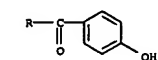
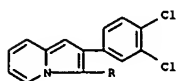
RN 64676-47-7 CAPLUS
 CN Methanone, (4-hydroxyphenyl) [2-(4-methoxyphenyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



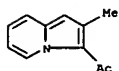
RN 64676-48-8 CAPLUS
CN Methanone, [2-(2-bromophenyl)-3-indolizinyloxy]-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



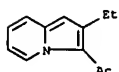
RN 64676-49-9 CAPLUS
CN Methanone, [2-(3,4-dichlorophenyl)-3-indolizinyloxy]-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



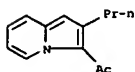
RN 64676-50-2 CAPLUS
CN Methanone, [2-(3-bromophenyl)-3-indolizinyloxy]-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



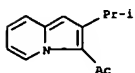
RN 36944-76-0 CAPLUS
CN Ethanone, 1-(2-ethyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)



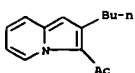
RN 58963-32-9 CAPLUS
CN Ethanone, 1-(2-propyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)



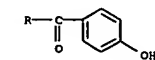
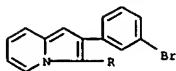
RN 58963-33-0 CAPLUS
CN Ethanone, 1-[2-(1-methylethyl)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



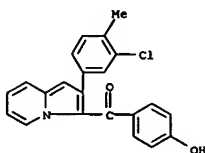
RN 58963-34-1 CAPLUS
CN Ethanone, 1-(2-butyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)



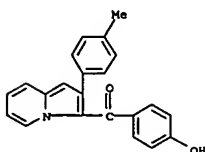
IT 64675-86-1P 64676-07-9P 64676-11-5P
64676-16-0P 64676-19-3P 64676-20-6P
64676-21-7P 64676-75-1P 64676-81-9P
64676-89-7P 64677-09-4P 64677-11-8P
64677-13-0P 64677-15-2P 64677-17-4P
64677-19-6P 64677-21-0P 64677-23-2P
64677-25-4P 64677-27-6P 64677-29-8P
64677-31-2P



RN 64676-51-3 CAPLUS
CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indolizinyloxy]-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



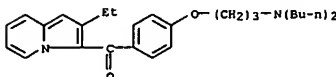
RN 64676-52-4 CAPLUS
CN Methanone, (4-hydroxyphenyl)[2-(4-methylphenyl)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



IT 24004-45-3P 36944-76-0P 58963-32-9P
58963-33-0P 58963-34-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with tosyloxybenzoyl chloride)
RN 24004-45-3 CAPLUS
CN Ethanone, 1-(2-methyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 64675-86-1 CAPLUS
CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl][2-ethyl-3-indolizinyloxy]-, hydrochloride (9CI) (CA INDEX NAME)

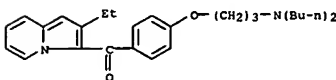


• x HCl

RN 64676-07-9 CAPLUS
CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl][2-ethyl-3-indolizinyloxy]-, methanesulfonate (9CI) (CA INDEX NAME)

CH 1

CRN 62228-20-0
CMF C28 H38 N2 O2



CH 2

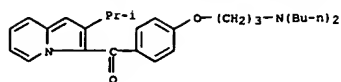
CRN 75-75-2
CMF C H4 O3 S



RN 64676-11-5 CAPLUS
CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl][2-(1-methylethyl)-3-indolizinyloxy]-, ethanedioate (9CI) (CA INDEX NAME)

CH 1

CRN 64466-96-2
CMF C29 H40 N2 O2

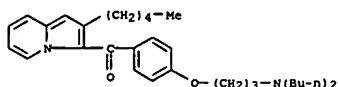


CH 2
CRN 144-62-7
CHF C2 H2 O4



RN 64676-16-0 CAPLUS
CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl](2-pentyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CH 1
CRN 64676-15-9
CHF C31 H44 N2 O2



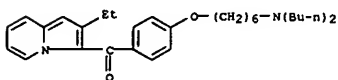
CH 2
CRN 144-62-7
CHF C2 H2 O4



RN 64676-19-3 CAPLUS
CN Methanone, [2-butyl-3-indolizinyloxy][4-[3-(dipropylamino)propoxy]-3,5-dimethylphenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CH 1
CRN 64577-87-3
CHF C30 H42 N2 O2

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CRN 64466-86-0
CHF C31 H44 N2 O2

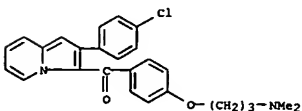


CH 2
CRN 144-62-7
CHF C2 H2 O4



RN 64676-75-1 CAPLUS
CN Methanone, [2-(4-chlorophenyl)-3-indolizinyloxy][4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

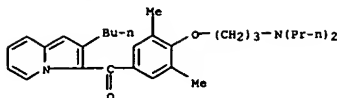
CH 1
CRN 64676-74-0
CHF C26 H25 Cl N2 O2



CH 2
CRN 144-62-7
CHF C2 H2 O4



RN 64676-81-9 CAPLUS
CN Methanone, [2-(4-bromophenyl)-3-indolizinyloxy][4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

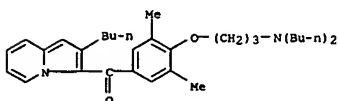


CH 2
CRN 144-62-7
CHF C2 H2 O4



RN 64676-20-6 CAPLUS
CN Methanone, (2-butyl-3-indolizinyloxy)[4-[3-(dibutylamino)propoxy]-3,5-dimethylphenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CH 1
CRN 64577-89-5
CHF C32 H46 N2 O2



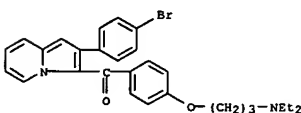
CH 2
CRN 144-62-7
CHF C2 H2 O4



RN 64676-21-7 CAPLUS
CN Methanone, [4-[16-(dibutylamino)hexyloxy]phenyl](2-ethyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CH 1

CH 1
CRN 64676-80-8
CHF C28 H29 Br N2 O2

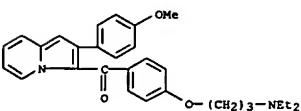


CH 2
CRN 144-62-7
CHF C2 H2 O4



RN 64676-89-7 CAPLUS
CN Methanone, [4-[3-(diethylamino)propoxy]phenyl][2-(4-methoxyphenyl)-3-indolizinyloxy]-, ethanedioate (9CI) (CA INDEX NAME)

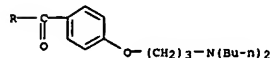
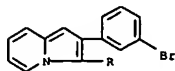
CH 1
CRN 64676-88-6
CHF C29 H32 N2 O3



CH 2
CRN 144-62-7
CHF C2 H2 O4



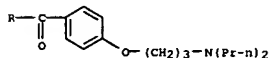
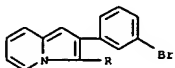
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RN 64677-09-4 CAPLUS
 CN Methanone, [2-(3-bromophenyl)-3-indoliziny][4-[3-(dibutylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)
 CH 1
 CRN 64677-08-3
 CHF C32 H37 Br N2 O2



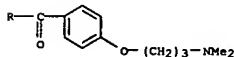
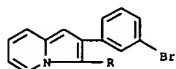
CH 2
 CRN 144-62-7
 CHF C2 H2 O4



RN 64677-11-8 CAPLUS
 CN Methanone, [2-(3-bromophenyl)-3-indoliziny][4-[3-(dipropylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)
 CH 1
 CRN 64677-10-7
 CHF C30 H33 Br N2 O2



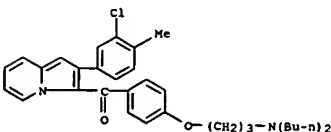
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CH 2
 CRN 144-62-7
 CHF C2 H2 O4



RN 64677-17-4 CAPLUS
 CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indoliziny][4-[3-(dibutylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)
 CH 1
 CRN 64677-16-3
 CHF C33 H39 Cl N2 O2



CH 2
 CRN 144-62-7
 CHF C2 H2 O4

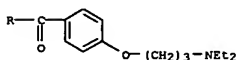
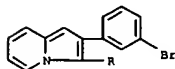


L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CH 2
 CRN 144-62-7
 CHF C2 H2 O4



RN 64677-13-0 CAPLUS
 CN Methanone, [2-(3-bromophenyl)-3-indoliziny][4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)
 CH 1
 CRN 64677-12-9
 CHF C28 H29 Br N2 O2



CH 2
 CRN 144-62-7
 CHF C2 H2 O4

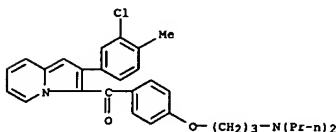


RN 64677-15-2 CAPLUS
 CN Methanone, [2-(3-bromophenyl)-3-indoliziny][4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)
 CH 1
 CRN 64677-14-1
 CHF C26 H25 Br N2 O2

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 64677-19-6 CAPLUS
 CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indoliziny][4-[3-(dipropylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

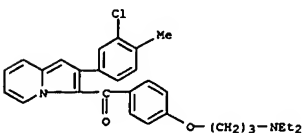
CH 1
 CRN 64677-18-5
 CHF C31 H35 Cl N2 O2



CH 2
 CRN 144-62-7
 CHF C2 H2 O4



RN 64677-21-0 CAPLUS
 CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indoliziny][4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)
 CH 1
 CRN 64677-20-9
 CHF C29 H31 Cl N2 O2



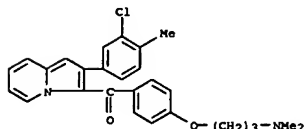
CH 2
 CRN 144-62-7
 CHF C2 H2 O4



RN 64677-23-2 CAPLUS
CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indoliziny] [4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CH 1

CRN 64677-22-1
CMF C27 H27 Cl N2 O2



CH 2

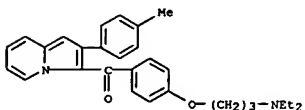
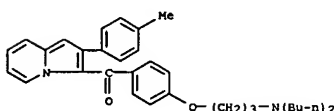
CRN 144-62-7
CMF C2 H2 O4



RN 64677-25-4 CAPLUS
CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl] [2-(4-methylphenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CH 1

CRN 64677-24-3
CMF C33 H40 N2 O2



CH 2

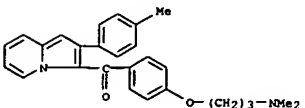
CRN 144-62-7
CMF C2 H2 O4



RN 64677-31-2 CAPLUS
CN Methanone, [4-[3-(dimethylamino)propoxy]phenyl] [2-(4-methylphenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CH 1

CRN 64677-30-1
CMF C27 H28 N2 O2



CH 2

CRN 144-62-7
CMF C2 H2 O4



CH 2

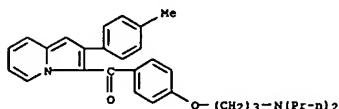
CRN 144-62-7
CMF C2 H2 O4



RN 64677-27-6 CAPLUS
CN Methanone, [4-[3-(dipropylamino)propoxy]phenyl] [2-(4-methylphenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CH 1

CRN 64677-26-5
CMF C31 H36 N2 O2



CH 2

CRN 144-62-7
CMF C2 H2 O4



RN 64677-29-8 CAPLUS
CN Methanone, [4-[3-(diethylamino)propoxy]phenyl] [2-(4-methylphenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

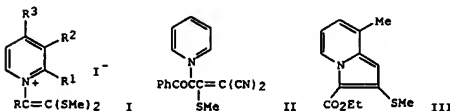
CH 1

CRN 64677-28-7
CMF C29 H32 N2 O2

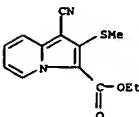
ACCESSION NUMBER: 1978:6669 CAPLUS
DOCUMENT NUMBER: 88:6669

TITLE: Heterocyclic ketene thioacetal derivatives. IX. Reactions of 1-[2,2-bis(methylthio)vinyl]pyridinium iodides with active methylene compounds
Tominaga, Yoshinori; Fujito, Hiroshi; Mizuyama, Kazumichi; Matsuda, Yoshiro; Kobayashi, Goro
CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1977), 25(7), 1519-27
CODEN: CPBTAL; ISSN: 0009-2363

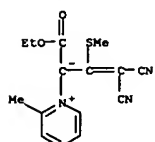
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



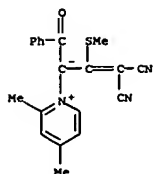
AB The reaction of 1-[2,2-bis(methylthio)vinyl]pyridinium iodide derivs. I (R = H, PhCO, EtO2C, H2NCO; R1-R3 = H, Me) with active methylene compds. in the presence of a base in EtOH, DMF, or Me2SO gave pyridinium allylides, e.g., II, indolizines, e.g., III, and N-[2,2-bis(methylthio)vinyl]-N-(6,6-disubstituted 1,3,5-hexatrienyl)amine derivs., e.g., (Me3)2C:CHNHCH:CHCH:CHCH:CH:CN)2.
IT 53754-14-6P 59181-99-6P 64908-41-4P 64908-42-5P 64908-43-6P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
RN 53754-14-6 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-cyano-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



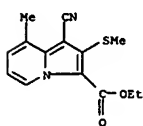
RN 59181-99-6 CAPLUS
CN Pyridinium, 2-methyl-, 3,3-dicyano-1-(ethoxycarbonyl)-2-(methylthio)-2-propenylide (9CI) (CA INDEX NAME)



RN 64908-41-4 CAPLUS
CN Pyridinium, 2,4-dimethyl-, 1-benzoyl-3,3-dicyano-2-(methylthio)-2-propenylidene (9CI) (CA INDEX NAME)

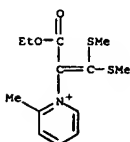


RN 64908-42-5 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-cyano-8-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

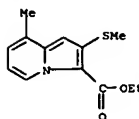


RN 64908-43-6 CAPLUS
CN 3-Indolizinecarboxylic acid, 8-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

RN 59181-95-2 CAPLUS
CN Pyridinium, 1-[1-(ethoxycarbonyl)-2,2-bis(methylthio)ethenyl]-2-methyl-, iodide (9CI) (CA INDEX NAME)

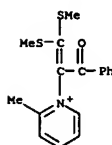


• I⁻



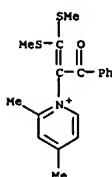
IT 59181-92-9 59181-94-1 59181-95-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with active methylene compound)

RN 59181-92-9 CAPLUS
CN Pyridinium, 1-[1-benzoyl-2,2-bis(methylthio)ethenyl]-2-methyl-, iodide (9CI) (CA INDEX NAME)



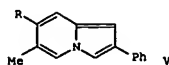
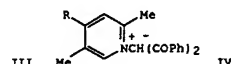
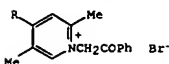
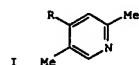
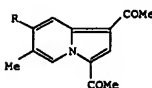
• I⁻

RN 59181-94-1 CAPLUS
CN Pyridinium, 1-[1-benzoyl-2,2-bis(methylthio)ethenyl]-2,4-dimethyl-, iodide (9CI) (CA INDEX NAME)



• I⁻

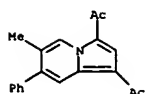
ACCESSION NUMBER: 1976:432794 CAPLUS
DOCUMENT NUMBER: 85:32794
TITLE: Synthesis of indolizines and pyridinium ylides from 4,5-disubstituted α-piccolines
Prostakov, N. S.; Galvoronskaya, L. A.; Sarata Mokhomon, Kamara M.; Zvolinskii, V. P.; Savina, A.
A.: Makhside, Munzer; Opaso Carrasco, Viktor H.
CORPORATE SOURCE: Univ. Druzhby Nar. im. Lumumby, Moscow, USSR
SOURCE: Khimiya Geterotsiklicheskih Soedinenii (1976), (4), 506-10
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 85:32794
GI



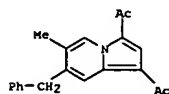
AB Indolizines I (R = Ph, PhCH₂) were obtained in 20% yield by cyclization of lutidines (II) with Ac₂O. Treatment of I with PhCOCH₂Br gave 93% III (R = Ph, PhCH₂) which were converted to ylides IV (R = Ph, PhCH₂) in 40 and 34.5% yields. Treatment of III with KOH gave approx. 10% indolizines V (R = Ph, PhCH₂).

IT 59647-38-0P 59700-11-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with aldehydes)

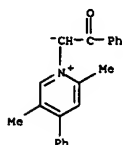
RN 59647-38-0 CAPLUS
CN Ethanone, 1,1'-(6-methyl-7-phenyl-1,3-indolizinediyl)bis- (9CI) (CA INDEX NAME)



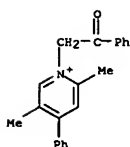
RN 59700-11-7 CAPLUS
CN Ethanone, 1,1'-[6-methyl-7-(phenylmethyl)-1,3-indolizinediyl]bis- (9CI)
(CA INDEX NAME)



IT 59647-42-6P 59647-43-7P 59647-44-8P
59647-45-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 59647-42-6 CAPLUS
CN Pyridinium, 2,5-dimethyl-4-phenyl-, 2-oxo-2-phenylethylide (9CI) (CA
INDEX NAME)

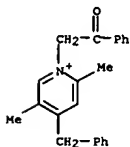


RN 59647-43-7 CAPLUS
CN Pyridinium, 2,5-dimethyl-4-phenyl-, 1-benzoyl-2-oxo-2-phenylethylide
(9CI)
(CA INDEX NAME)

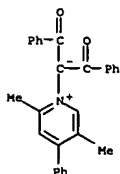


• Br⁻

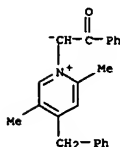
RN 59647-41-5 CAPLUS
CN Pyridinium, 2,5-dimethyl-1-(2-oxo-2-phenylethyl)-4-(phenylmethyl)-,
bromide (9CI) (CA INDEX NAME)



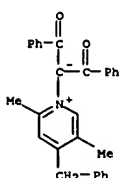
• Br⁻



RN 59647-44-8 CAPLUS
CN Pyridinium, 2,5-dimethyl-4-(phenylmethyl)-, 2-oxo-2-phenylethylide (9CI)
(CA INDEX NAME)

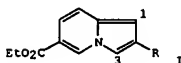


RN 59647-45-9 CAPLUS
CN Pyridinium, 2,5-dimethyl-4-(phenylmethyl)-, 1-benzoyl-2-oxo-2-
phenylethylide (9CI) (CA INDEX NAME)

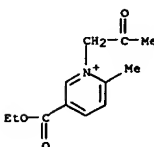


IT 54485-87-9P 59647-41-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation, cyclization, and ylide formation from)
RN 54485-87-9 CAPLUS
CN Pyridinium, 2,5-dimethyl-1-(2-oxo-2-phenylethyl)-4-phenyl-, bromide (9CI)
(CA INDEX NAME)

ACCESSION NUMBER: 1976:421063 CAPLUS
DOCUMENT NUMBER: 85:21063
TITLE: Indolizines. II. Synthesis and properties of
2-methyl(aryl)-6-ethoxycarbonylindolizines
AUTHOR(S): Loseva, T. S.; Yanina, A. D.; Mikhlin, E. E.;
Yakhontov, L. N.
CORPORATE SOURCE: Vses. Nauchno-Issled. Khim.-Farm. Inst. im.
Ordzhonikidze, Moscow, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1976), (2),
209-14
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 85:21063
GI



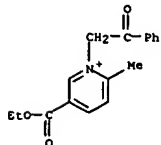
AB Condensation-cyclization of Et 6-methyl-3-pyridinecarboxylate with
RCOCH2Br (R = Me, Ph, substituted phenyl) gave the title indolizines I,
which underwent electrophilic substitution reactions to give 3-mono- and
1,3-disubstituted derivs. of I. Thus, Vilsmeier formylation of I (R =
Me)
gave 47% of the corresponding 1,3-diformyl derivative, whereas I (R =
Ph) gave
90.5% of the corresponding 3-formyl derivative
IT 59603-53-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of)
RN 59603-53-1 CAPLUS
CN Pyridinium, 5-(ethoxycarbonyl)-2-methyl-1-(2-oxopropyl)-, bromide (9CI)
(CA INDEX NAME)



• Br⁻

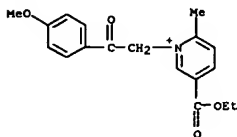
IT 59603-48-4P 59603-49-5P 59603-50-8P
59603-51-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

L15 ANSWER 72 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 (Reactant or reagent)
 (prepn. and cyclization of)
 RN 59603-48-4 CAPLUS
 CN Pyridinium, 5-(ethoxycarbonyl)-2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



• Br⁻

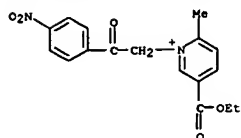
RN 59603-49-5 CAPLUS
 CN Pyridinium,
 5-(ethoxycarbonyl)-1-[2-(4-methoxyphenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)



• Br⁻

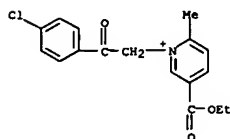
RN 59603-50-8 CAPLUS
 CN Pyridinium,
 5-(ethoxycarbonyl)-2-methyl-1-[2-(4-nitrophenyl)-2-oxoethyl]-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 72 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



• Br⁻

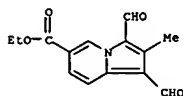
RN 59603-51-9 CAPLUS
 CN Pyridinium,
 1-[2-(4-chlorophenyl)-2-oxoethyl]-5-(ethoxycarbonyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)



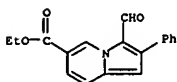
• Br⁻

IT 59603-63-3P 59603-64-4P 59603-65-5P
 59603-66-6P 59603-67-7P 59603-68-8P
 59603-69-9P 59603-70-2P 59603-71-3P
 59603-72-4P 59603-73-5P 59603-74-6P
 59603-75-7P 59603-76-8P 59603-77-9P
 59603-78-0P 59603-79-1P 59603-80-4P
 RL: SPN (synthetic preparation); PREP (Preparation)
 (preparation of)

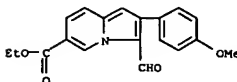
RN 59603-63-3 CAPLUS
 CN 6-Indolizinecarboxylic acid, 1,3-diformyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



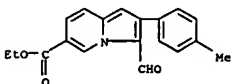
L15 ANSWER 72 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RN 59603-64-4 CAPLUS
 CN 6-Indolizinecarboxylic acid, 3-formyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



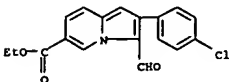
RN 59603-65-5 CAPLUS
 CN 6-Indolizinecarboxylic acid, 3-formyl-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 59603-66-6 CAPLUS
 CN 6-Indolizinecarboxylic acid, 3-formyl-2-(4-methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

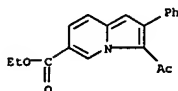


RN 59603-67-7 CAPLUS
 CN 6-Indolizinecarboxylic acid, 2-(4-chlorophenyl)-3-formyl-, ethyl ester (9CI) (CA INDEX NAME)

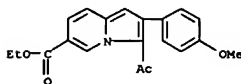


RN 59603-68-8 CAPLUS
 CN 6-Indolizinecarboxylic acid, 3-acetyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

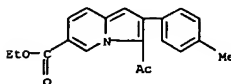
L15 ANSWER 72 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



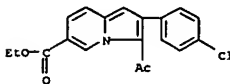
RN 59603-69-9 CAPLUS
 CN 6-Indolizinecarboxylic acid, 3-acetyl-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



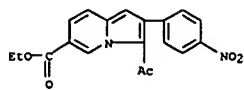
RN 59603-70-2 CAPLUS
 CN 6-Indolizinecarboxylic acid, 3-acetyl-2-(4-methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



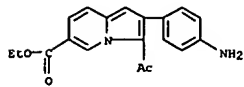
RN 59603-71-3 CAPLUS
 CN 6-Indolizinecarboxylic acid, 3-acetyl-2-(4-chlorophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



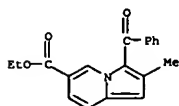
RN 59603-72-4 CAPLUS
 CN 6-Indolizinecarboxylic acid, 3-acetyl-2-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



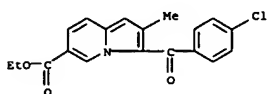
RN 59603-73-5 CAPLUS
CN 6-Indolizinecarboxylic acid, 3-acetyl-2-(4-aminophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



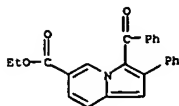
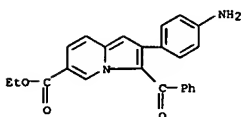
RN 59603-74-6 CAPLUS
CN 6-Indolizinecarboxylic acid, 3-benzoyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



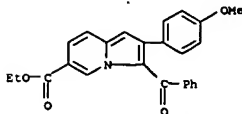
RN 59603-75-7 CAPLUS
CN 6-Indolizinecarboxylic acid, 3-(4-chlorobenzoyl)-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



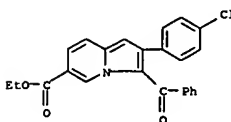
RN 59603-76-8 CAPLUS
CN 6-Indolizinecarboxylic acid, 3-benzoyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



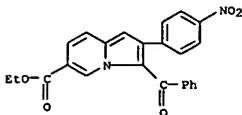
RN 59603-77-9 CAPLUS
CN 6-Indolizinecarboxylic acid, 3-benzoyl-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 59603-78-0 CAPLUS
CN 6-Indolizinecarboxylic acid, 3-benzoyl-2-(4-chlorophenyl)-, ethyl ester (9CI) (CA INDEX NAME)

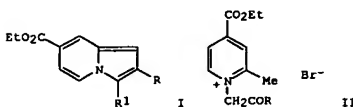


RN 59603-79-1 CAPLUS
CN 6-Indolizinecarboxylic acid, 3-benzoyl-2-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 59603-80-4 CAPLUS
CN 6-Indolizinecarboxylic acid, 2-(4-aminophenyl)-3-benzoyl-, ethyl ester (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 1976:179988 CAPLUS
DOCUMENT NUMBER: 84:179988
TITLE: Indolizines. III. Some electrophilic substitution reactions in 2-methyl(aryl)-7-ethoxycarbonylindolizine series
AUTHOR(S): Loseva, T. S.; Yanina, A. D.; Mikhlin, E. E.; Yakhontov, L. N.
CORPORATE SOURCE: Vses. Nauchno-Issled. Khim.-Farm. Inst. im. Ordzhonikidze, Moscow, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1976), (3), 348-51
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 84:179988
GI



AB Indolizinecarboxylates (I, R = Ph, Me, p-MeOC₆H₄, p-BrC₆H₄, p-O₂NC₆H₄, R₁ = CHO, MeCO, PhCO, p-ClC₆H₄CO, CH₂NMe₂) were obtained in 42-95% yields in 3 steps from II by treatment with aqueous NH₃, followed by cyclization to give

I (R₁ = H) and subsequent electrophilic substitution.

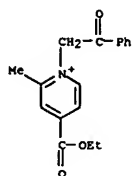
IT 54342-81-3P 54387-38-1P 59195-35-6P

59195-36-7P 59195-37-8P

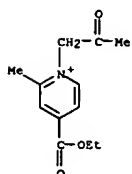
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and inner salt formation from)

RN 54342-81-3 CAPLUS

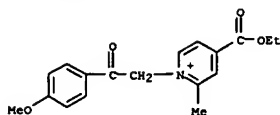
CN Pyridinium, 4-(ethoxycarbonyl)-2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

● Br⁻

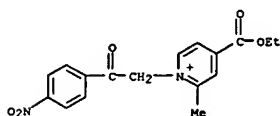
RN 54387-38-1 CAPLUS
CN Pyridinium, 4-(ethoxycarbonyl)-2-methyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

● Br⁻

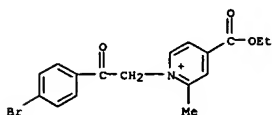
RN 59195-35-6 CAPLUS
CN Pyridinium, 4-(ethoxycarbonyl)-1-[2-(4-methoxyphenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

RN 59195-36-7 CAPLUS
CN Pyridinium, 4-(ethoxycarbonyl)-2-methyl-1-[2-(4-nitrophenyl)-2-oxoethyl]-, bromide (9CI) (CA INDEX NAME)

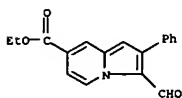
● Br⁻

RN 59195-37-8 CAPLUS
CN Pyridinium, 1-[2-(4-bromophenyl)-2-oxoethyl]-4-(ethoxycarbonyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)

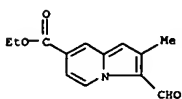
● Br⁻

IT 59195-45-8P 59195-46-9P 59195-47-0P
59195-48-1P 59195-49-2P 59195-50-5P
59195-51-6P 59195-52-7P
RL: SPN (Synthetic preparation); PREP (Preparation)

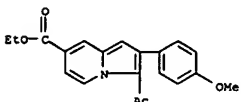
(prepn. of)
RN 59195-45-8 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-formyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



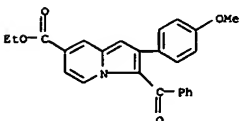
RN 59195-46-9 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-formyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 59195-47-0 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-acetyl-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

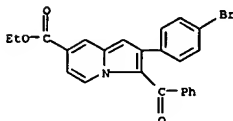


RN 59195-48-1 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-benzoyl-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

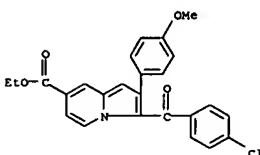


RN 59195-49-2 CAPLUS

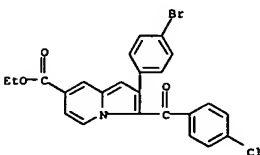
7-Indolizinecarboxylic acid, 3-benzoyl-2-(4-bromophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



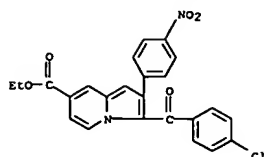
RN 59195-50-5 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-(4-chlorobenzoyl)-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



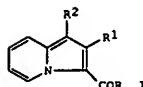
RN 59195-51-6 CAPLUS
CN 7-Indolizinecarboxylic acid, 2-(4-bromophenyl)-3-(4-chlorobenzoyl)-, ethyl ester (9CI) (CA INDEX NAME)



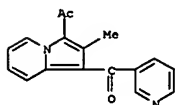
RN 59195-52-7 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-(4-chlorobenzoyl)-2-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



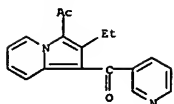
ACCESSION NUMBER: 1976:150535 CAPLUS
 DOCUMENT NUMBER: 84:150535
 TITLE: Indoliziny pyridylketones. Synthesis and evaluation of their antiinflammatory and antalgic activities
 AUTHOR(S): Rosseels, Gilbert; Inion, Henri; Matteazzi, Jean R.; Peiren, Maurits; Prost, Maurice; Descamps, Marcel; Tornay, Chantal; Colot, Michel; Charlier, Robert
 CORPORATE SOURCE: Cent. Rech., S.A. Labaz N.V., Brussels, Belg.
 SOURCE: European Journal of Medicinal Chemistry (1975), 10(6),
 579-84
 CODEN: EJMCA5; ISSN: 0223-5234
 DOCUMENT TYPE: Journal
 LANGUAGE: French
 OTHER SOURCE(S): CASREACT 84:150535
 GI



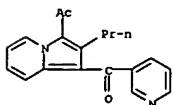
AB Ketones I (R = 2-, 3-, 4-pyridyl; R1 = Me, Et, Pr, CHMe2, Bu, Ph, 4-MeOC6H4, 4-ClC6H4, 4-FC6H4; R2 = H, CH2CO2H, Ac, CH2NMe2, CH2CN) were prepared e.g. by treating 3-unsubstituted indolizines with pyridylcarbonyl chlorides. I (R = 3-pyridyl, R1 = Et, Pr, R2 = H) had analgesic ED50 in the HOAc writhing test of 50 and 30 mg/kg, resp., but had ED50 of .apprx.350 mg/kg in the electroshock test.
 IT 58963-10-3P 58963-11-4P 58963-12-5P
 58963-13-6P 58963-14-7P 58963-15-8P
 58963-16-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (preparation and deacetylation of)
 RN 58963-10-3 CAPLUS
 CN Ethanone, 1-[2-methyl-1-(3-pyridinylcarbonyl)-3-indolizinyl]- (9CI) (CA INDEX NAME)



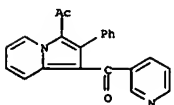
RN 58963-11-4 CAPLUS
 CN Ethanone, 1-[2-ethyl-1-(3-pyridinylcarbonyl)-3-indolizinyl]- (9CI) (CA INDEX NAME)



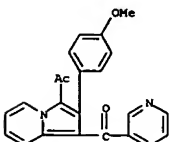
RN 58963-12-5 CAPLUS
 CN Ethanone, 1-[2-propyl-1-(3-pyridinylcarbonyl)-3-indolizinyl]- (9CI) (CA INDEX NAME)



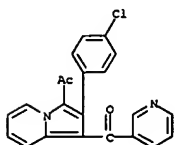
RN 58963-13-6 CAPLUS
 CN Ethanone, 1-[2-phenyl-1-(3-pyridinylcarbonyl)-3-indolizinyl]- (9CI) (CA INDEX NAME)



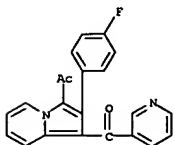
RN 58963-14-7 CAPLUS
 CN Ethanone, 1-[2-(4-methoxyphenyl)-1-(3-pyridinylcarbonyl)-3-indolizinyl]- (9CI) (CA INDEX NAME)



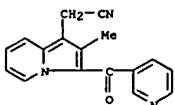
RN 58963-15-8 CAPLUS
 CN Ethanone, 1-[2-(4-chlorophenyl)-1-(3-pyridinylcarbonyl)-3-indolizinyl]- (9CI) (CA INDEX NAME)



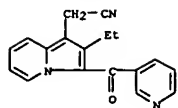
RN 58963-16-9 CAPLUS
 CN Ethanone, 1-[2-(4-fluorophenyl)-1-(3-pyridinylcarbonyl)-3-indolizinyl]- (9CI) (CA INDEX NAME)



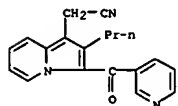
IT 58963-41-0P 58963-42-1P 58963-43-2P
 58963-44-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and hydrolysis of)
 RN 58963-41-0 CAPLUS
 CN 1-Indolizineacetonitrile, 2-methyl-3-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)



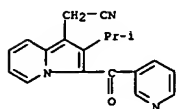
RN 58963-42-1 CAPLUS
 CN 1-Indolizineacetonitrile, 2-ethyl-3-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)



RN 58963-43-2 CAPLUS
CN 1-Indolizineacetonitrile, 2-propyl-3-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)

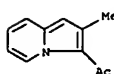


RN 58963-44-3 CAPLUS
CN 1-Indolizineacetonitrile, 2-(1-methylethyl)-3-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)

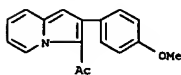


IT 58963-37-4P 58963-38-5P 58963-39-6P
58963-40-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with cyanide)
RN 58963-37-4 CAPLUS
CN Methanone, [1-[(dimethylamino)methyl]-2-methyl-3-indoliziny]-3-pyridinyl- (9CI) (CA INDEX NAME)

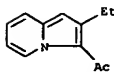
L15 ANSWER 74 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of, with nicotinoyl chloride)
RN 24004-45-3 CAPLUS
CN Ethanone, 1-(2-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)



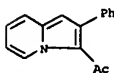
RN 26573-47-7 CAPLUS
CN Ethanone, 1-[2-(4-methoxyphenyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



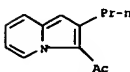
RN 36944-76-0 CAPLUS
CN Ethanone, 1-(2-ethyl-3-indoliziny)- (9CI) (CA INDEX NAME)



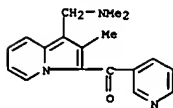
RN 38320-58-0 CAPLUS
CN Ethanone, 1-(2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



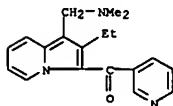
RN 58963-32-9 CAPLUS
CN Ethanone, 1-(2-propyl-3-indoliziny)- (9CI) (CA INDEX NAME)



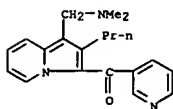
RN 58963-33-0 CAPLUS
CN Ethanone, 1-[2-(1-methylethyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



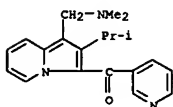
RN 58963-38-5 CAPLUS
CN Methanone, [1-[(dimethylamino)methyl]-2-ethyl-3-indoliziny]-3-pyridinyl- (9CI) (CA INDEX NAME)



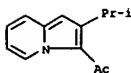
RN 58963-39-6 CAPLUS
CN Methanone, [1-[(dimethylamino)methyl]-2-propyl-3-indoliziny]-3-pyridinyl- (9CI) (CA INDEX NAME)



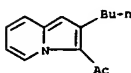
RN 58963-40-9 CAPLUS
CN Methanone, [1-[(dimethylamino)methyl]-2-(1-methylethyl)-3-indoliziny]-3-pyridinyl- (9CI) (CA INDEX NAME)



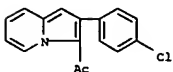
IT 24004-45-3P 26573-47-7P 36944-76-0P
38320-58-0P 58963-32-9P 58963-33-0P
58963-34-1P 58963-35-2P 58963-36-3P



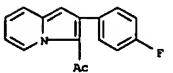
RN 58963-34-1 CAPLUS
CN Ethanone, 1-(2-butyl-3-indoliziny)- (9CI) (CA INDEX NAME)



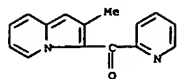
RN 58963-35-2 CAPLUS
CN Ethanone, 1-[2-(4-chlorophenyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



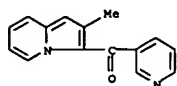
RN 58963-36-3 CAPLUS
CN Ethanone, 1-[2-(4-fluorophenyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



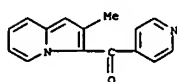
IT 58962-94-0P 58962-95-1P 58962-96-2P
58962-97-3P 58962-98-4P 58962-99-5P
58963-00-1P 58963-01-2P 58963-02-3P
58963-03-4P 58963-04-5P 58963-05-6P
58963-06-7P 58963-07-8P 58963-08-9P
58963-09-0P 58963-24-9P 58963-25-0P
58963-26-1P 58963-27-2P 58982-21-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 58962-94-0 CAPLUS
CN Methanone, (2-methyl-3-indoliziny)-2-pyridinyl- (9CI) (CA INDEX NAME)



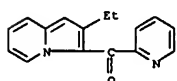
RN 58962-95-1 CAPLUS
CN Methanone, (2-methyl-3-indoliziny-3-pyridinyl- (9CI) (CA INDEX NAME)



RN 58962-96-2 CAPLUS
CN Methanone, (2-methyl-3-indoliziny-4-pyridinyl- (9CI) (CA INDEX NAME)

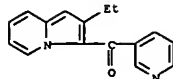


RN 58962-97-3 CAPLUS
CN Methanone, (2-ethyl-3-indoliziny-2-pyridinyl-, monohydrochloride (9CI) (CA INDEX NAME)

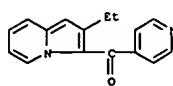


● HCl

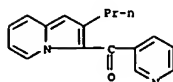
RN 58962-98-4 CAPLUS
CN Methanone, (2-ethyl-3-indoliziny-3-pyridinyl- (9CI) (CA INDEX NAME)



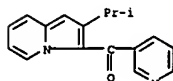
RN 58962-99-5 CAPLUS
CN Methanone, (2-ethyl-3-indoliziny-4-pyridinyl- (9CI) (CA INDEX NAME)



RN 58963-00-1 CAPLUS
CN Methanone, (2-propyl-3-indoliziny-3-pyridinyl- (9CI) (CA INDEX NAME)

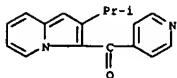


RN 58963-01-2 CAPLUS
CN Methanone, [2-(1-methylethyl)-3-indoliziny-3-pyridinyl-, monohydrochloride (9CI) (CA INDEX NAME)

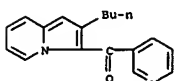


● HCl

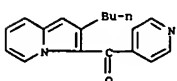
RN 58963-02-3 CAPLUS
CN Methanone, [2-(1-methylethyl)-3-indoliziny-4-pyridinyl- (9CI) (CA INDEX NAME)



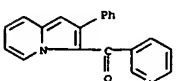
RN 58963-03-4 CAPLUS
CN Methanone, (2-butyl-3-indoliziny-3-pyridinyl- (9CI) (CA INDEX NAME)



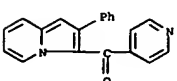
RN 58963-04-5 CAPLUS
CN Methanone, (2-butyl-3-indoliziny-4-pyridinyl- (9CI) (CA INDEX NAME)



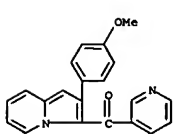
RN 58963-05-6 CAPLUS
CN Methanone, (2-phenyl-3-indoliziny-3-pyridinyl- (9CI) (CA INDEX NAME)



RN 58963-06-7 CAPLUS
CN Methanone, (2-phenyl-3-indoliziny-4-pyridinyl- (9CI) (CA INDEX NAME)

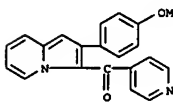


RN 58963-07-8 CAPLUS
CN Methanone, [2-(4-methoxyphenyl)-3-indoliziny-3-pyridinyl-, monohydrochloride (9CI) (CA INDEX NAME)



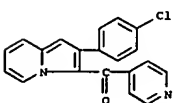
● HCl

RN 58963-08-9 CAPLUS
CN Methanone, [2-(4-methoxyphenyl)-3-indoliziny-4-pyridinyl-, monohydrochloride (9CI) (CA INDEX NAME)

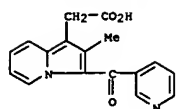


● HCl

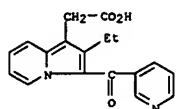
RN 58963-09-0 CAPLUS
CN Methanone, [2-(4-chlorophenyl)-3-indoliziny-4-pyridinyl- (9CI) (CA INDEX NAME)



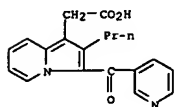
RN 58963-24-9 CAPLUS
CN 1-Indolizineacetic acid, 2-methyl-3-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)



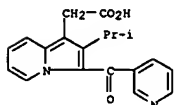
RN 58963-25-0 CAPLUS
CN 1-Indolizineacetic acid, 2-ethyl-3-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)



RN 58963-26-1 CAPLUS
CN 1-Indolizineacetic acid, 2-propyl-3-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)



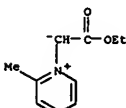
RN 58963-27-2 CAPLUS
CN 1-Indolizineacetic acid, 2-(1-methylethyl)-3-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)



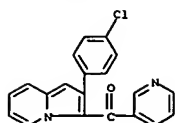
RN 58982-21-1 CAPLUS
CN Methanone, [2-(4-chlorophenyl)-3-indoliziny]-3-pyridinyl- (9CI) (CA INDEX NAME)

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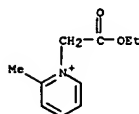
ACCESSION NUMBER: 1975:170618 CAPLUS
DOCUMENT NUMBER: 82:170618
TITLE: Synthesis of indolizines by intramolecular cyclization of pyridinium allylides
[1-(1-pyridinio)prop-2-enides]
AUTHOR(S): Tamura, Yasumitsu; Sumida, Yoshio; Haruki, Shinichiro;
Ikeda, Masazumi
CORPORATE SOURCE: Fac. Pharm. Sci., Osaka Univ., Osaka, Japan
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1975), (6), 575-9
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 82:170618
GI For diagram(s), see printed CA Issue.
AB Pyridinium bromides I, in EtOH-K2CO3, reacted with 3-chlorocyclohex-2-enones and EtOCH2C(COMe)2 or EtOCH2C(CO2Et)2 to give the corresponding pyridinium (ethoxycarbonyl)(3-oxocyclohexen-1-yl)methylides II-IV and 3,3-diacetyl-1-(ethoxycarbonyl)alkylides V-VIII, resp. The ylides II-V and VII on refluxing in xylene underwent intramol. cyclization to give the corresponding indolizines IX-XIII resp. However, similar treatment of the ylides VI and VIII gave XIV and XIII, resp. The mechanism for the formation of indolizine derivs. was discussed.
IT 55814-01-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with chlorocyclohexenones, (ethoxymethylene) pentanedione, and di-Et (ethoxymethylene)malonate)
RN 55814-01-2 CAPLUS
CN Pyridinium, 2-methyl-, 2-ethoxy-2-oxoethylide (9CI) (CA INDEX NAME)



IT 55814-04-5P 55814-07-8P 55814-09-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and thermal intramol. cyclization of, indolizines by)
RN 55814-04-5 CAPLUS
CN Pyridinium, 2-methyl-, 2-ethoxy-2-oxo-1-(3-oxo-1-cyclohexen-1-yl)ethylide (9CI) (CA INDEX NAME)

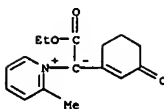


IT 58963-28-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with sodium alkanoates)
RN 58963-28-3 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)

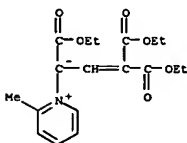


● Cl⁻

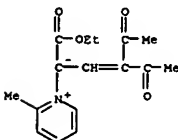
L15 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



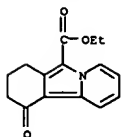
RN 55814-07-8 CAPLUS
CN Pyridinium, 2-methyl-, 4-ethoxy-1,3-bis(ethoxycarbonyl)-4-oxo-2-butenylide (9CI) (CA INDEX NAME)



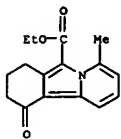
RN 55814-09-0 CAPLUS
CN Pyridinium, 2-methyl-, 3-acetyl-1-(ethoxycarbonyl)-4-oxo-2-pentenylide (9CI) (CA INDEX NAME)



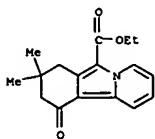
IT 55814-10-3P 55814-11-4P 55814-12-5P
55814-13-6P 55814-14-7P 55814-15-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 55814-10-3 CAPLUS
CN Pyrido[2,1-a]isoindole-6-carboxylic acid, 7,8,9,10-tetrahydro-10-oxo-, ethyl ester (9CI) (CA INDEX NAME)



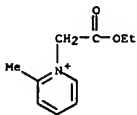
RN 55814-11-4 CAPLUS
CN Pyrido[2,1-a]isoindole-6-carboxylic acid,
7,8,9,10-tetrahydro-4-methyl-10-
oxo-, ethyl ester (9CI) (CA INDEX NAME)



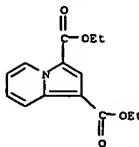
RN 55814-12-5 CAPLUS
CN Pyrido[2,1-a]isoindole-6-carboxylic acid,
7,8,9,10-tetrahydro-8,8-dimethyl-
10-oxo-, ethyl ester (9CI) (CA INDEX NAME)



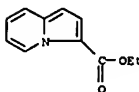
RN 55814-13-6 CAPLUS
CN 1,3-indolizinedicarboxylic acid, diethyl ester (9CI) (CA INDEX NAME)



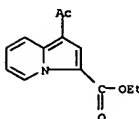
• Br⁻



RN 55814-14-7 CAPLUS
CN 3-Indolizinecarboxylic acid, ethyl ester (9CI) (CA INDEX NAME)

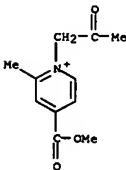


RN 55814-15-8 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-acetyl-, ethyl ester (9CI) (CA INDEX NAME)



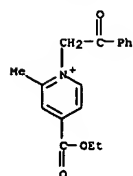
IT 55814-02-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with potassium carbonate)
RN 55814-02-3 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 1975:16671 CAPLUS
DOCUMENT NUMBER: 82:16671
TITLE: Synthesis and properties of 2-methyl(aryl)-7-ethoxy carbonylindolizines
AUTHOR(S): Mikhlin, E. E.; Yanina, A. D.; Loseva, T. S.; Turchin, K. F.; Yakhontov, L. N.
CORPORATE SOURCE: Vses. Nauchno-Issled. Khim.-farm. Inst. im. Ordzhonikidze, Moscow, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1974), (7), 977-81
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB Alkylation of the isonicotinates I (R = Me, Et) with BrCH₂COCH₃ and BrCH₂COPh gave the pyridinium bromides II (R₁ = Me, Ph; resp.); cyclization of II (R = Et; R₁ = Me, Ph) in refluxing EtOH containing NaHCO₃ yielded Et 2-methyl-7-indolizinecarboxyl-ate (III) and 2-phenyl-7-indolizinecarboxylate, resp. Successive treatment of II (R = Et, R = Ph) with NH₄OH and refluxing Me₂CHOH gave Et 2-phenyl-7-indolizinecarboxylate (IV). Acylation of III and IV by Ac₂O, BzCl, and 4-ClC₆H₄COCl yielded the acylindolizines V (R₂ = Me, Ph; R₃ = Me, Ph, 4-ClC₆H₄).
IT 54342-80-2P 54342-81-3P 54387-38-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 54342-80-2 CAPLUS
CN Pyridinium, 4-(methoxycarbonyl)-2-methyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

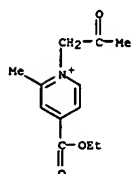


• Br⁻

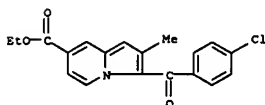
RN 54342-81-3 CAPLUS
CN Pyridinium, 4-(methoxycarbonyl)-2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

● Br⁻

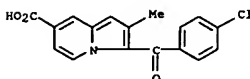
RN 54387-38-1 CAPLUS
CN Pyridinium, 4-(ethoxycarbonyl)-2-methyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

● Br⁻

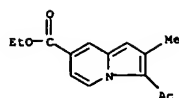
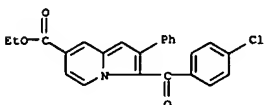
IT 54342-91-5P 54342-92-6P 54342-93-7P
54342-94-8P 54342-95-9P 54342-96-0P
54342-97-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 54342-91-5 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-acetyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



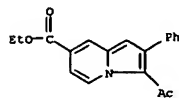
RN 54342-96-0 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-(4-chlorobenzoyl)-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



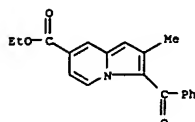
RN 54342-97-1 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-(4-chlorobenzoyl)-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



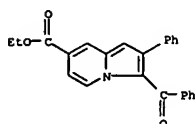
RN 54342-92-6 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-acetyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 54342-93-7 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-benzoyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)

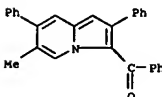


RN 54342-94-8 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-benzoyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

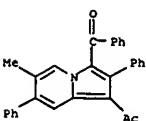


RN 54342-95-9 CAPLUS
CN 7-Indolizinecarboxylic acid, 3-(4-chlorobenzoyl)-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)

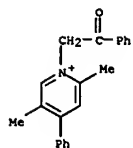
ACCESSION NUMBER: 1974:520371 CAPLUS
DOCUMENT NUMBER: 81:120371
TITLE: Synthesis of substituted indolizines from 1-phenacyl-5-methyl-4-phenyl-2-phenacylidene-1,2-dihydropyridine
AUTHOR(S): Prostakov, N. S.; Baktibaev, O. B.
CORPORATE SOURCE: Univ. Druzh. Nar. im. Lummby, Moscow, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1974), (6), 788-91
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
CI For diagram(s), see printed CA Issue.
AB Reaction of 2,5-dimethyl-4-phenylpyridine with BrCH₂COPh gave 97% 2,5-dimethyl-1-phenacyl-4-phenylpyridinium bromide which when treated with BzCl gave 95% of the pyridine I. Heating I with Ac₂O gave a mixture of the indolizines II, III and IV. Treatment of 6-methyl-2,7-diphenylindolizine with BzCl gave IV. Reaction of I with HCONH₂ gave a mixture of II and IV.
IT 53971-44-1P 53971-46-3P 54485-87-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
RN 53971-44-1 CAPLUS
CN Methanone, (6-methyl-2,7-diphenyl-3-indoliziny)phenyl-, ethyl ester (9CI) (CA INDEX NAME)



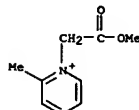
RN 53971-46-3 CAPLUS
CN Ethanone, 1-(3-benzoyl-6-methyl-2,7-diphenyl-1-indoliziny)- (9CI) (CA INDEX NAME)



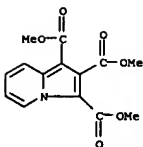
RN 54485-87-9 CAPLUS
CN Pyridinium, 2,5-dimethyl-1-(2-oxo-2-phenylethyl)-4-phenyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

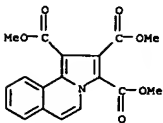
L15 ANSWER 78 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1974:425517 CAPLUS
 DOCUMENT NUMBER: 81:25517
 TITLE: Preparation of stable 2,3-dihydroindolizines by the reactions of pyridinium methylides with various acrylates
 AUTHOR(S): Kakehi, Akikazu; Ito, Suketaka
 CORPORATE SOURCE: Fac. Eng., Shinshu Univ., Nagano, Japan
 SOURCE: Bulletin of the Chemical Society of Japan (1974), 47(4), 938-41
 CODEN: BCSJAB; ISSN: 0009-2673
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB Pyridinium methoxycarbonylmethylides, readily obtainable from their corresponding salts I reacted with various acrylates to afford indolizine-1,3-dicarboxylates II (R = H, 5-Me, 7-Me, 7,8-CH:CHCH:CH; R1 = CO2Me, Ph, Me) in moderate yields. II were stable and were not aromatized by heating. Treatment of II with Pb(OAc)4 gave the corresponding indolizines (III) in good yields.
 IT 52817-23-9P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and cyclization with acrylates)
 RN 52817-23-9 CAPLUS
 CN Pyridinium, 1-(2-methoxy-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

IT 4491-43-4P 7593-63-7P 37129-40-1P
 52817-26-2P 52817-27-3P 52817-28-4P
 52817-29-5P 52817-30-8P 52817-31-9P
 52817-32-0P 52817-33-1P 52817-34-2P
 52817-35-3P 52817-36-4P 52817-37-5P
 52817-38-6P 52817-39-7P 52817-40-0P
 52817-41-1P 52817-42-2P 52817-43-3P
 52817-44-4P 52817-45-5P 52817-46-6P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 4491-43-4 CAPLUS
 CN 1,2,3-Indolizinetetracarboxylic acid, trimethyl ester (7CI, 8CI, 9CI) (CA INDEX NAME)

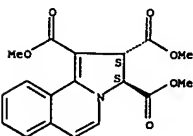


RN 7593-63-7 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-1,2,3-tricarboxylic acid, trimethyl ester (7CI, 8CI, 9CI) (CA INDEX NAME)



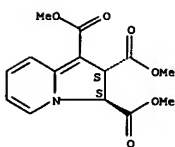
RN 37129-40-1 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-1,2,3-tricarboxylic acid, 2,3-dihydro-, trimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



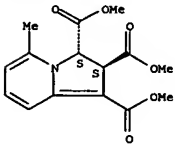
RN 52817-26-2 CAPLUS
 CN 1,2,3-Indolizinetetracarboxylic acid, 2,3-dihydro-, trimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



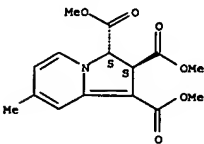
RN 52817-27-3 CAPLUS
 CN 1,2,3-Indolizinetetracarboxylic acid, 2,3-dihydro-5-methyl-, trimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



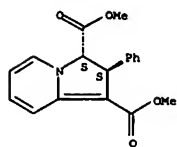
RN 52817-28-4 CAPLUS
 CN 1,2,3-Indolizinetetracarboxylic acid, 2,3-dihydro-7-methyl-, trimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



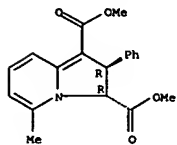
RN 52817-29-5 CAPLUS
 CN 1,3-Indolizinedicarboxylic acid, 2,3-dihydro-2-phenyl-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



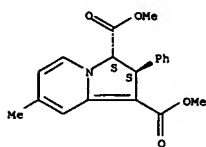
RN 52817-30-8 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 2,3-dihydro-5-methyl-2-phenyl-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



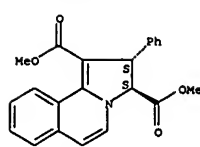
RN 52817-31-9 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 2,3-dihydro-7-methyl-2-phenyl-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



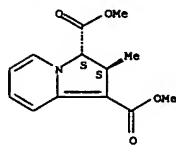
RN 52817-32-0 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,3-dicarboxylic acid, 2,3-dihydro-2-phenyl-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



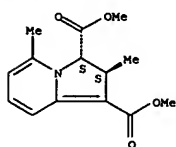
RN 52817-33-1 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 2,3-dihydro-2-methyl-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



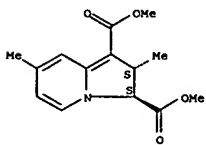
RN 52817-34-2 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 2,3-dihydro-2,5-dimethyl-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



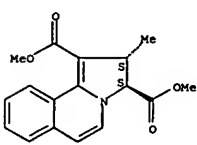
RN 52817-35-3 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 2,3-dihydro-2,7-dimethyl-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

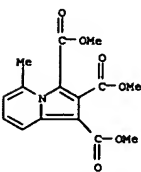


RN 52817-36-4 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,3-dicarboxylic acid, 2,3-dihydro-2-methyl-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

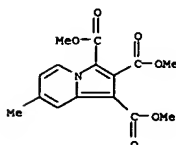
Relative stereochemistry.



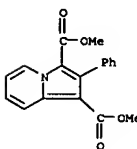
RN 52817-37-5 CAPLUS
CN 1,2,3-Indolizinetricarboxylic acid, 5-methyl-, trimethyl ester (9CI) (CA INDEX NAME)



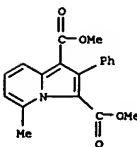
RN 52817-38-6 CAPLUS
CN 1,2,3-Indolizinetricarboxylic acid, 7-methyl-, trimethyl ester (9CI) (CA INDEX NAME)



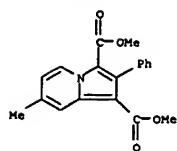
RN 52817-39-7 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 2-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



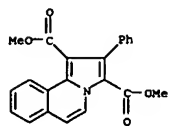
RN 52817-40-0 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 5-methyl-2-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



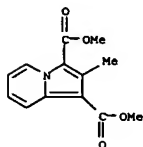
RN 52817-41-1 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 7-methyl-2-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



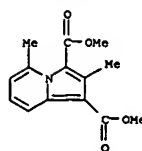
RN 52817-42-2 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,3-dicarboxylic acid, 2-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



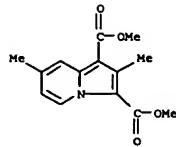
RN 52817-43-3 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 2-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



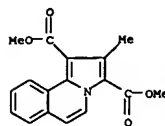
RN 52817-44-4 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 2,5-dimethyl-, dimethyl ester (9CI) (CA INDEX NAME)



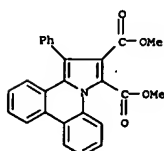
RN 52817-45-5 CAPLUS
CN 1,3-Indolizinedicarboxylic acid, 2,7-dimethyl-, dimethyl ester (9CI) (CA INDEX NAME)



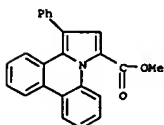
RN 52817-46-6 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,3-dicarboxylic acid, 2-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



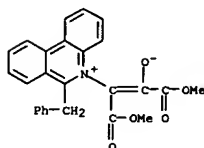
ACCESSION NUMBER: 1974:145980 CAPLUS
DOCUMENT NUMBER: 80:145980
TITLE: Addition reactions of heterocyclic compounds. LIV. Rotational isomerism of 6-aryl-5-(oxidovinyl)phenanthridiniums. Investigation by variable temperature nuclear magnetic resonance spectroscopy
AUTHOR(S): Acheson, R. Morrin; Selby, Ian A.
CORPORATE SOURCE: Dep. Biochem., Univ. Oxford, Oxford, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1974), (4), 423-30
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB 6-Aryl-5-(oxidovinyl)phenanthridiniums (I; R = H, R1 = CO2Me, H; R = Me, R1 = CO2Me), prepared from the corresponding phenanthridine 5-oxides and MeOCC.tplbond.CR (R = CO2Me, H), were shown to exhibit rotational isomerism by variable temperature NMR spectroscopy. I (R = H, R1 = CO2Me, H)
IT 52648-50-7P 52648-53-0P
RL: SPN (Synthetic preparation); PREP (Preparation of)
RN 52648-50-7 CAPLUS
CN Pyrrolo[1,2-f]phenanthridine-2,3-dicarboxylic acid, 1-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



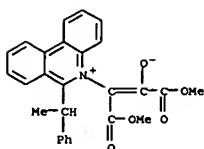
RN 52648-53-0 CAPLUS
CN Pyrrolo[1,2-f]phenanthridine-3-carboxylic acid, 1-phenyl-, methyl ester (9CI) (CA INDEX NAME)



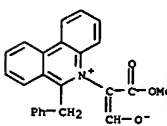
IT 26905-54-4 26905-55-5 52648-46-1
RL: PRP (Properties)
(rotational isomerism of, NMR in relation to)
RN 26905-54-4 CAPLUS
CN Phenanthridinium, 5-[2-hydroxy-3-methoxy-1-(methoxycarbonyl)-3-oxo-1-propenyl]-6-(phenylethyl)-, inner salt (9CI) (CA INDEX NAME)



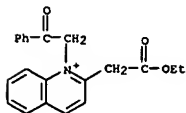
RN 26905-55-5 CAPLUS
CN Phenanthridinium, 5-[2-hydroxy-3-methoxy-1-(methoxycarbonyl)-3-oxo-1-propenyl]-6-(1-phenylethyl)-, inner salt (9CI) (CA INDEX NAME)



RN 52648-46-1 CAPLUS
CN Phenanthridinium, 5-[2-hydroxy-1-(methoxycarbonyl)ethenyl]-6-(phenylethyl)-, inner salt (9CI) (CA INDEX NAME)



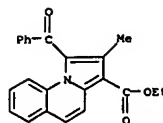
L15 ANSWER 80 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1974:120721 CAPLUS
 DOCUMENT NUMBER: 80:120721
 TITLE: Pyrrolo[1,2-a]quinolines. Reinvestigation
 AUTHOR(S): Irwin, W. J.; Wibberley, D. G.
 CORPORATE SOURCE: Dep. Pharm., Univ. Aston, Birmingham, UK
 SOURCE: Journal of the Chemical Society, Perkin Transactions
 1: Organic and Bio-Organic Chemistry (1972-1999)
 (1974), (2), 250-2
 CODEN: JCPRB4; ISSN: 0300-922X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB Et 2-quinolylacetate (I; R = H, R1 = CO2Et) with PhCOCH2Br gave, after
 treatment with HCl and NaOH, I (R = CO2Et, R1 = CH2COPh) which with Ac2O
 gave 26% pyrroloquinoline (II; R = Me, R1 = PhCO) and 20% II (R = Ph, R1
 = H).
 IT 52249-54-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (structure vs. 2-[2-benzoyl-1-(ethoxycarbonyl)ethyl]quinoline
 hydrobromide, from reaction of Et quinolylacetate with phenacyl
 bromide)
 RN 52249-54-4 CAPLUS
 CN Quinolinium, 2-(2-ethoxy-2-oxoethyl)-1-(2-oxo-2-phenylethyl)-, bromide
 (9CI) (CA INDEX NAME)



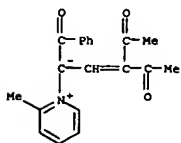
• Br⁻

IT 13526-93-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (structure vs. 2-benzoyl-3-(ethoxycarbonyl)-1-methylpyrrolo[1,2-
 a]quinoline, from reaction of Et quinolylacetate with phenacyl
 bromide)
 RN 13526-93-7 CAPLUS
 CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 1-benzoyl-2-methyl-, ethyl
 ester (8CI, 9CI) (CA INDEX NAME)

L15 ANSWER 80 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

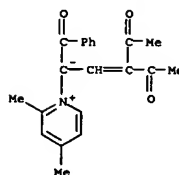


L15 ANSWER 81 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1974:36969 CAPLUS
 DOCUMENT NUMBER: 80:36969
 TITLE: Synthesis and thermal reaction of pyridinium
 3,3-diacyl-1-benzoylallylides[3,3-diacyl-1-benzoyl-1-
 (1-pyridinio)prop-2-enides]. Formation of indolizine
 derivatives
 AUTHOR(S): Tamura, Yasumitsu; Sumida, Yoshio; Ikeda, Masazumi
 CORPORATE SOURCE: Fac. Pharm. Sci., Osaka Univ., Osaka, Japan
 SOURCE: Journal of the Chemical Society, Perkin Transactions
 1: Organic and Bio-Organic Chemistry (1972-1999)
 (1973), (19), 2091-5
 CODEN: JCPRB4; ISSN: 0300-922X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB Pyridinium phenacylides with 2,2-diacyl-1-ethoxyethylenes gave pyridinium
 3,3-diacyl-1-benzoyl-allylides. E.g. pyridinium phenacylide with
 EtOCH:C(OMe)2 gave 75% allylide (I, R = H). I (R = H) in refluxing
 Me2C6H4 gave 6% indolizine (II; R = H, R1 = Bz). 2-Methyl deriva. of I
 in refluxing Me2C6H4 gave mainly 1-acetyl-2-phenylindolizines. E.g. I (R =
 Me) gave 30% II (R = Ph, R1 = CH:CHCOMe) and 2% II (R = H, R1 = Bz).
 IT 51386-33-5P 51386-34-6P 51386-35-7P
 51386-41-5P 51386-42-6P 51386-46-0P
 51386-49-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 51386-33-5 CAPLUS
 CN Pyridinium, 2-methyl-, 3-acetyl-1-benzoyl-4-oxo-2-pentenylide (9CI) (CA
 INDEX NAME)

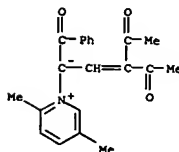


RN 51386-34-6 CAPLUS
 CN Pyridinium, 2,4-dimethyl-, 3-acetyl-1-benzoyl-4-oxo-2-pentenylide (9CI)
 (CA INDEX NAME)

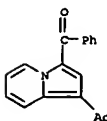
L15 ANSWER 81 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 51386-35-7 CAPLUS
 CN Pyridinium, 2,5-dimethyl-, 3-acetyl-1-benzoyl-4-oxo-2-pentenylide (9CI)
 (CA INDEX NAME)

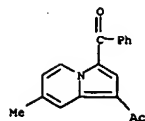


RN 51386-41-5 CAPLUS
 CN Ethanone, 1-(3-benzoyl-1-indoliziny)- (9CI) (CA INDEX NAME)

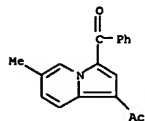


RN 51386-42-6 CAPLUS
 CN Ethanone, 1-(3-benzoyl-7-methyl-1-indoliziny)- (9CI) (CA INDEX NAME)

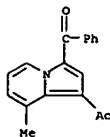
L15 ANSWER 81 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



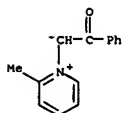
RN 51386-46-0 CAPLUS
CN Ethanone, 1-(3-benzoyl-6-methyl-1-indoliziny)- (9CI) (CA INDEX NAME)



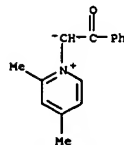
RN 51386-49-3 CAPLUS
CN Ethanone, 1-(3-benzoyl-8-methyl-1-indoliziny)- (9CI) (CA INDEX NAME)



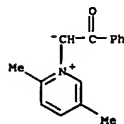
IT 51386-37-9 51386-38-0 51386-39-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (ethoxymethylene)pentanedione)
RN 51386-37-9 CAPLUS
CN Pyridinium, 2-methyl-, 2-oxo-2-phenylethylidene (9CI) (CA INDEX NAME)



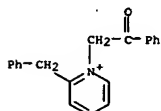
L15 ANSWER 81 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RN 51386-38-0 CAPLUS
CN Pyridinium, 2,4-dimethyl-, 2-oxo-2-phenylethylidene (9CI) (CA INDEX NAME)



RN 51386-39-1 CAPLUS
CN Pyridinium, 2,5-dimethyl-, 2-oxo-2-phenylethylidene (9CI) (CA INDEX NAME)

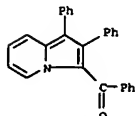


L15 ANSWER 82 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1973:147883 CAPLUS
DOCUMENT NUMBER: 78:147883
TITLE: Reaction of acyl-substituted sulfonium and pyridinium ylides with diphenylthiirene dioxide
AUTHOR(S): Hayashi, Yosio; Nakamura, Hideo; Nozaki, Hitosi
CORPORATE SOURCE: Dep. Ind. Chem., Kyoto Univ., Kyoto, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1973), 46(2), 667-9
CODEN: BCSJAB; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Diphenylthiirene dioxide (I) was treated with Me2S+C-HCOPh to give 67% PhC.tpbond.CPh, 15% an oxathian dioxide (II, R = H), 13% a thiote dioxide (III, R = H) and 12% a dithian (IV, R = H). II, III, and IV (R = Me) were similarly prepared Pyridinium phenacylide and I gave 46% 3-benzoyl-1,2-diphenylindolizine (V). 3-Benzoyl-1,2-diphenylpyrrolo[2,1-a]isoquinoline (VI) and 1-benzoyl-2,3-diphenylpyrrolo[1,2-a]quinoline (VII) were similarly prepared
IT 1094-77-5P 36944-59-9P 40448-75-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 1094-77-5 CAPLUS
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)



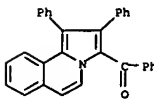
• Br⁻

RN 36944-59-9 CAPLUS
CN Methanone, (1,2-diphenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)

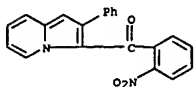


RN 40448-75-7 CAPLUS
CN Methanone, (1,2-diphenylpyrrolo[2,1-a]isoquinolin-3-yl)phenyl- (9CI) (CA INDEX NAME)

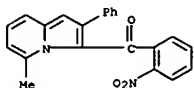
L15 ANSWER 82 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
INDEX NAME)



L15 ANSWER 83 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1972:501345 CAPLUS
 DOCUMENT NUMBER: 77:101345
 TITLE: Cyclic compounds containing hetero-bridge atoms.
 VIII.
 Benzoindolizines
 AUTHOR(S): Flitsch, Wilhelm; Gerstmann, Egbert
 CORPORATE SOURCE: Org.-Chem. Inst., Univ. Muenster, Muenster, Fed. Rep. Ger.
 SOURCE: Chemische Berichte (1972), 105(7), 2344-50
 CODEN: CHBEAM; ISSN: 0009-2940
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI For diagram(s), see printed CA Issue.
 AB 1-Phenacyl-2-picolinium and 1-phenacyl-2,6-lutidinium salts reacted with O₂NC₆H₄COCl to give 1-(nitrobenzoyl)-2-phenylindolizines (I, R = H or Me).
 The isomeric 3-(nitrobenzoyl)-2-phenylindolizines were obtained by acylation of the 3-unsubstituted compds. 1-Benzoyl-5-methyl-2-phenylindolizine (II), obtained from 1-phenacyl-2,6-lutidinium bromide and BzCl, gave with Ac₂O 1,1-bis(1-benzoyl-5-methyl-2-phenyl-3-indolizinylolethylene. Some further reactions of II were reported.
 IT 38468-54-1P 38468-55-2P 38468-56-3P
 38468-54-1P 38468-58-5P 38468-59-6P
 38468-60-9P 38493-33-3P 38493-36-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 38468-54-1 CAPLUS
 CN Methanone, (2-nitrophenyl) (2-phenyl-3-indolizinylolethylene)- (9CI) (CA INDEX NAME)

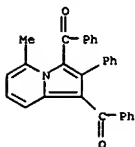


RN 38468-55-2 CAPLUS
 CN Methanone, (5-methyl-2-phenyl-3-indolizinylolethylene) (2-nitrophenyl)- (9CI) (CA INDEX NAME)

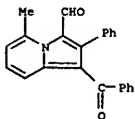


RN 38468-56-3 CAPLUS
 CN Methanone, (4-nitrophenyl) (2-phenyl-3-indolizinylolethylene)- (9CI) (CA INDEX NAME)

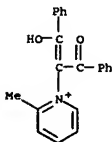
L15 ANSWER 83 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 38493-33-3 CAPLUS
 CN 3-indolizinecarboxaldehyde, 1-benzoyl-5-methyl-2-phenyl- (9CI) (CA INDEX NAME)

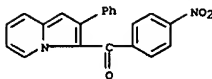


RN 38493-36-6 CAPLUS
 CN Pyridinium, 1-(1-benzoyl-2-hydroxy-2-phenylethenyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)

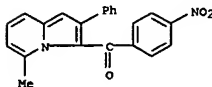


● Cl⁻

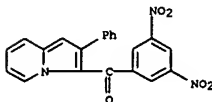
L15 ANSWER 83 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



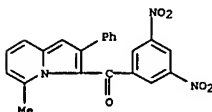
RN 38468-57-4 CAPLUS
 CN Methanone, (5-methyl-2-phenyl-3-indolizinylolethylene) (4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 38468-58-5 CAPLUS
 CN Methanone, (3,5-dinitrophenyl) (2-phenyl-3-indolizinylolethylene)- (9CI) (CA INDEX NAME)

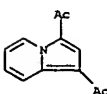


RN 38468-59-6 CAPLUS
 CN Methanone, (3,5-dinitrophenyl) (5-methyl-2-phenyl-3-indolizinylolethylene)- (9CI) (CA INDEX NAME)

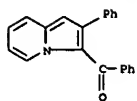


RN 38468-60-9 CAPLUS
 CN Methanone, (5-methyl-2-phenyl-1,3-indolizinediyl)bis(phenyl)- (9CI) (CA INDEX NAME)

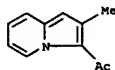
L15 ANSWER 84 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1972:434269 CAPLUS
 DOCUMENT NUMBER: 77:34269
 TITLE: Indolizines. I. Direct synthesis of acylindolizines from substituted pyridinium salts
 AUTHOR(S): Dainis, I.
 CORPORATE SOURCE: Chem. Sch., Univ. New South Wales, Kensington, Australia
 SOURCE: Australian Journal of Chemistry (1972), 25(5), 1003-24
 CODEN: AJCHAS; ISSN: 0004-9425
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB Several routes to 1-(formylmethyl)-2-methylpyridinium bromide (I) were examined. Chichibabin cyclization of I to indolizine failed; an intermol. aldol condensation occurred. Preparation of acyl- and diacylindolizines, e.g.,
 II (R₁, R₂, R₃ = H, Me, Ph) and III (R₁, R₂ = H, Me, Ph), from 1-(β-oxoalkyl)-2-alkyl- and 1-(β-oxoalkyl)-2-benzylpyridinium salts was described. Using NaOAc-HOAc this reaction gave isomeric products. 1-Acyl-2,3-disubstituted and 3-acyl-1,2-disubstituted indolizines were formed from salts by Chichibabin cyclization and subsequent in situ acylation. 1-Acetyl-2-methylpyridinium bromide gave good yields of 3-acyl- and 1,3-diacylindolizines by this path and also
 via 1-acetyl-2-acetylmethylene-1,2-dihydropyridine. Thermal cyclization of 2-phenylpyridinium diphenylacetylmethylide gave 3-benzoyl-1,2-diphenylindolizine.
 IT 525-42-8P 14759-45-6P 24004-45-3P
 36944-58-8P 36944-59-9P 36944-60-2P
 36944-61-3P 36944-62-4P 36944-63-5P
 36944-64-6P 36944-66-8P 36944-67-9P
 36944-68-0P 36944-72-6P 36944-73-7P
 36944-74-8P 36944-75-9P 36944-76-0P
 36944-80-6P 36944-82-8P 36944-95-3P
 37050-11-6P 38320-58-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 525-42-8 CAPLUS
 CN Ethanone, 1,1'-(1,3-indolizinediyl)bis- (9CI) (CA INDEX NAME)



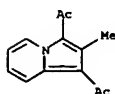
RN 14759-45-6 CAPLUS
 CN Methanone, phenyl (2-phenyl-3-indolizinylolethylene)- (9CI) (CA INDEX NAME)



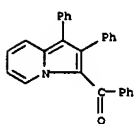
RN 24004-45-3 CAPLUS
CN Ethanone, 1-(2-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)



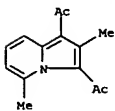
RN 36944-58-8 CAPLUS
CN Ethanone, 1,1'-(2-methyl-1,3-indolizinediyl)bis- (9CI) (CA INDEX NAME)



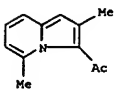
RN 36944-59-9 CAPLUS
CN Methanone, (1,2-diphenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



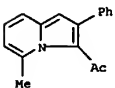
RN 36944-60-2 CAPLUS
CN Methanone, (1-methyl-2-phenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



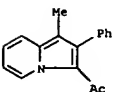
RN 36944-66-8 CAPLUS
CN Ethanone, 1-(2,5-dimethyl-3-indoliziny)- (9CI) (CA INDEX NAME)



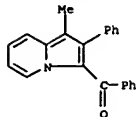
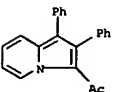
RN 36944-67-9 CAPLUS
CN Ethanone, 1-(5-methyl-2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



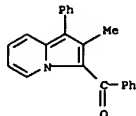
RN 36944-68-0 CAPLUS
CN Ethanone, 1-(1-methyl-2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



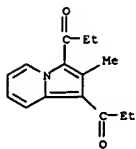
RN 36944-72-6 CAPLUS
CN Ethanone, 1-(1,2-diphenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



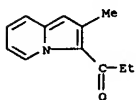
RN 36944-61-3 CAPLUS
CN Methanone, (2-methyl-1-phenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



RN 36944-62-4 CAPLUS
CN 1-Propanone, 1,1'-(2-methyl-1,3-indolizinediyl)bis- (9CI) (CA INDEX NAME)

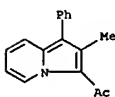


RN 36944-63-5 CAPLUS
CN 1-Propanone, 1-(2-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)

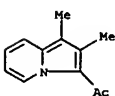


RN 36944-64-6 CAPLUS
CN Ethanone, 1,1'-(2,5-dimethyl-1,3-indolizinediyl)bis- (9CI) (CA INDEX NAME)

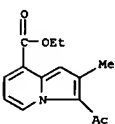
RN 36944-73-7 CAPLUS
CN Ethanone, 1-(2-methyl-1-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



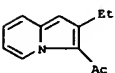
RN 36944-74-8 CAPLUS
CN Ethanone, 1-(1,2-dimethyl-3-indoliziny)- (9CI) (CA INDEX NAME)



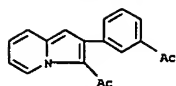
RN 36944-75-9 CAPLUS
CN 8-Indolizinecarboxylic acid, 3-acetyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



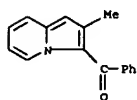
RN 36944-76-0 CAPLUS
CN Ethanone, 1-(2-ethyl-3-indoliziny)- (9CI) (CA INDEX NAME)



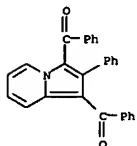
RN 36944-80-6 CAPLUS
CN Ethanone, 1-[3-(3-acetyl-2-indoliziny)phenyl]- (9CI) (CA INDEX NAME)



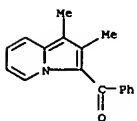
RN 36944-82-8 CAPLUS
CN Methanone, (2-methyl-3-indolizinyphenyl)- (9CI) (CA INDEX NAME)



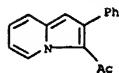
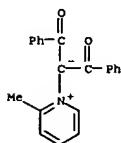
RN 36944-95-3 CAPLUS
CN Methanone, (2-phenyl-1,3-indolizinediyl)bis(phenyl)- (9CI) (CA INDEX NAME)



RN 37050-11-6 CAPLUS
CN Methanone, (1,2-dimethyl-3-indolizinyphenyl)- (9CI) (CA INDEX NAME)

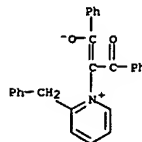


RN 38320-58-0 CAPLUS
CN Ethanone, 1-(2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)

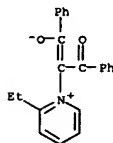


IT 36944-56-6 36944-84-0 36944-96-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(ring closure of, acylindolizines from)

RN 36944-56-6 CAPLUS
CN Pyridinium, 1-(1-benzoyl-2-hydroxy-2-phenylethenyl)-2-(phenylmethyl)-, inner salt (9CI) (CA INDEX NAME)



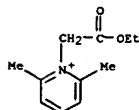
RN 36944-84-0 CAPLUS
CN Pyridinium, 1-(1-benzoyl-2-hydroxy-2-phenylethenyl)-2-ethyl-, inner salt (9CI) (CA INDEX NAME)



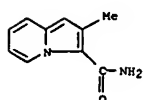
RN 36944-96-4 CAPLUS
CN Pyridinium, 2-methyl-, 1-benzoyl-2-oxo-2-phenylethylidene (9CI) (CA INDEX NAME)

7

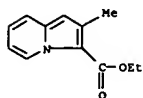
ACCESSION NUMBER: 1972:419499 CAPLUS
DOCUMENT NUMBER: 77:19499
TITLE: Indolizines. II. Facile synthesis of 3-alkoxycarbonyl-, 3-cyano-, and 3-carbamoylindolizines and its mechanism
AUTHOR(S): Dainis, I.
CORPORATE SOURCE: Chem. Sch., Univ. New South Wales, Kensington, Australia
SOURCE: Australian Journal of Chemistry (1972), 25(5), 1025-50
CODEN: AJCHAS; ISSN: 0004-9425
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Acylative cyclization of 2-methylpyridinium (I, R = CN, CO₂R₁, Me, CH(:NOH) gave 2,3-disubstituted and 1-acyl-2,3-disubstituted indolizines, e.g., II (R₁ = Ph, CO₂Et, CN, CONH₂, CO₂H, CO₂CH₂Ph, CH:NOH, R₂ = Me, Et, Ph). This method provided indolizines bearing electroneg. 3-substituents. With 2-substituted pyridinium salts this method provided 1-acetoxy-2,3-disubstituted and other 1,2,3-trisubstituted indolizines. Hydroxypyridines gave acetoxyindolizines. Product studies showed that acyl- and diacylmethines were the major intermediates. Treatment of indolizines with ClCO₂Et gave Et indolizine-3-carboxylates. These products and also 3-cyanoindolizines were characterized by reaction with acid formaldehyde to give methylene-1,1'-diindolizines.
IT 31778-09-3P 32401-32-4P 36766-56-0P
36766-57-1P 36766-58-2P 36766-59-3P
36766-76-4P 36766-77-5P 36766-78-6P
36766-79-7P 36766-80-0P 36766-81-1P
36766-82-2P 36766-83-3P 36766-84-4P
36766-85-5P 36766-86-6P 36766-87-7P
36766-89-9P 36766-93-5P 36766-94-6P
36767-01-8P 36767-03-0P 36767-04-1P
36767-05-2P 36767-06-3P 36767-07-4P
36767-08-5P 36767-09-6P 36767-10-9P
36767-11-0P 36767-13-2P 36767-14-3P
36767-15-4P 36767-16-5P 36767-17-6P
36779-53-0P 36779-54-1P 36827-04-0P
36827-05-1P 37511-56-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 31778-09-3 CAPLUS
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2,6-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

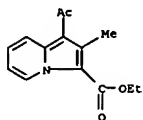
RN 32401-32-4 CAPLUS
CN 3-Indolizinecarboxamide, 2-methyl- (8CI, 9CI) (CA INDEX NAME)



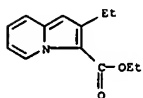
RN 36766-56-0 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



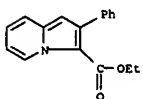
RN 36766-57-1 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-acetyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



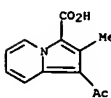
RN 36766-58-2 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-ethyl-, ethyl ester (9CI) (CA INDEX NAME)



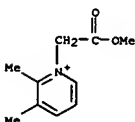
RN 36766-59-3 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-ethyl-1-(1-oxopropyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 36766-80-0 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-acetyl-2-methyl- (9CI) (CA INDEX NAME)

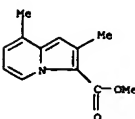


RN 36766-81-1 CAPLUS
CN Pyridinium, 1-(2-methoxy-2-oxoethyl)-2,3-dimethyl-, bromide (9CI) (CA INDEX NAME)

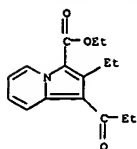


● Br⁻

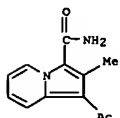
RN 36766-82-2 CAPLUS
CN 3-Indolizinecarboxylic acid, 2,8-dimethyl-, methyl ester (9CI) (CA INDEX NAME)



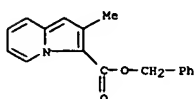
RN 36766-83-3 CAPLUS



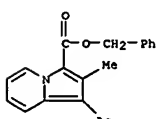
RN 36766-76-4 CAPLUS
CN 3-Indolizinecarboxamide, 1-acetyl-2-methyl- (9CI) (CA INDEX NAME)



RN 36766-77-5 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

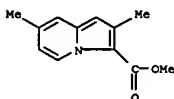


RN 36766-78-6 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-acetyl-2-methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

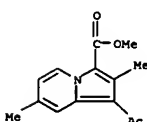


RN 36766-79-7 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

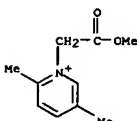
L15 ANSWER 85 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN 3-Indolizinecarboxylic acid, 2,7-dimethyl-, methyl ester (9CI) (CA INDEX NAME)



RN 36766-84-4 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-acetyl-2,7-dimethyl-, methyl ester (9CI) (CA INDEX NAME)

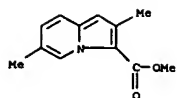


RN 36766-85-5 CAPLUS
CN Pyridinium, 1-(2-methoxy-2-oxoethyl)-2,5-dimethyl-, bromide (9CI) (CA INDEX NAME)

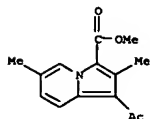


● Br⁻

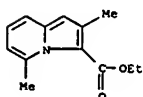
RN 36766-86-6 CAPLUS
CN 3-Indolizinecarboxylic acid, 2,6-dimethyl-, methyl ester (9CI) (CA INDEX NAME)



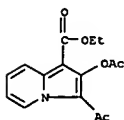
RN 36766-87-7 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-acetyl-2,6-dimethyl-, methyl ester (9CI)
(CA INDEX NAME)



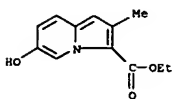
RN 36766-89-9 CAPLUS
CN 3-Indolizinecarboxylic acid, 2,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



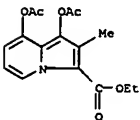
RN 36766-93-5 CAPLUS
CN 1-Indolizinecarboxylic acid, 3-acetyl-2-(acetyloxy)-, ethyl ester (9CI)
(CA INDEX NAME)



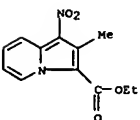
RN 36766-94-6 CAPLUS
CN 3-Indolizinecarboxylic acid, 1,2-dimethyl-, methyl ester (9CI) (CA INDEX NAME)



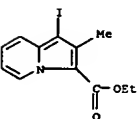
RN 36767-06-3 CAPLUS
CN 3-Indolizinecarboxylic acid, 1,8-bis(acetyloxy)-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



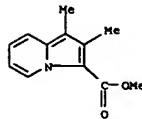
RN 36767-07-4 CAPLUS
CN 3-Indolizinecarboxylic acid, 2-methyl-1-nitro-, ethyl ester (9CI) (CA INDEX NAME)



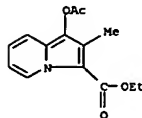
RN 36767-08-5 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-iodo-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



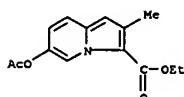
RN 36767-09-6 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-(cyanomethyl)-2-methyl-, ethyl ester (9CI)
(CA INDEX NAME)



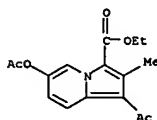
RN 36767-01-8 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-(acetyloxy)-2-methyl-, ethyl ester (9CI)
(CA INDEX NAME)



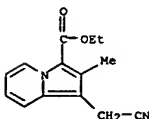
RN 36767-03-0 CAPLUS
CN 3-Indolizinecarboxylic acid, 6-(acetyloxy)-2-methyl-, ethyl ester (9CI)
(CA INDEX NAME)



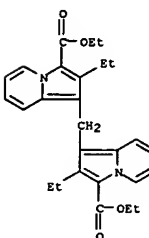
RN 36767-04-1 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-acetyl-6-(acetyloxy)-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



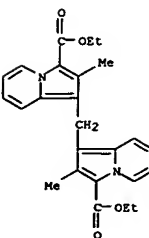
RN 36767-05-2 CAPLUS
CN 3-Indolizinecarboxylic acid, 6-hydroxy-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



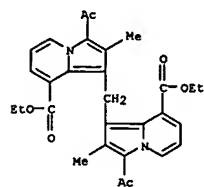
RN 36767-10-9 CAPLUS
CN 3-Indolizinecarboxylic acid, 1,1'-methylenebis(2-ethyl-, diethyl ester (9CI) (CA INDEX NAME)



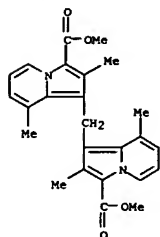
RN 36767-11-0 CAPLUS
CN 3-Indolizinecarboxylic acid, 1,1'-methylenebis(2-methyl-, diethyl ester (9CI) (CA INDEX NAME)



L15 ANSWER 85 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RN 36767-13-2 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1,1'-methylenebis[3-acetyl-2-methyl-, diethyl ester (9CI) (CA INDEX NAME)

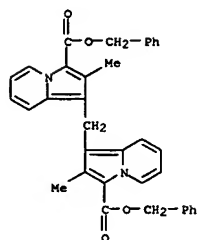


RN 36767-14-3 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1,1'-methylenebis[2,8-dimethyl-, dimethyl ester (9CI) (CA INDEX NAME)

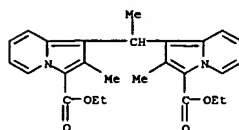


RN 36767-15-4 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1,1'-methylenebis[2-methyl-, bis(phenylmethyl) ester (9CI) (CA INDEX NAME)

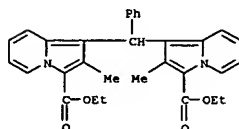
L15 ANSWER 85 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 36767-16-5 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1,1'-ethylidenebis[2-methyl-, diethyl ester (9CI) (CA INDEX NAME)

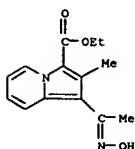


RN 36767-17-6 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1,1'-(phenylmethylene)bis[2-methyl-, diethyl ester (9CI) (CA INDEX NAME)

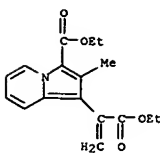


RN 36779-53-0 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-[1-(hydroxyimino)ethyl]-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)

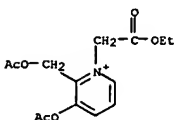
L15 ANSWER 85 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 36779-54-1 CAPLUS
 CN 1-Indolizineacetic acid, 3-(ethoxycarbonyl)-2-methyl-α-methylene-, ethyl ester (9CI) (CA INDEX NAME)



RN 36827-04-0 CAPLUS
 CN Pyridinium, 3-(acetyloxy)-2-[(acetyloxy)methyl]-1-(2-ethoxy-2-oxoethyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

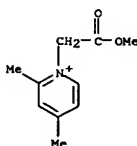
RN 36827-05-1 CAPLUS
 CN 1-Indolizinemethanaminium, 3-(ethoxycarbonyl)-N,N,N,2-tetramethyl-, iodide (9CI) (CA INDEX NAME)

L15 ANSWER 85 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



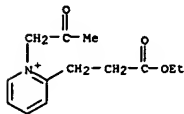
● I⁻

RN 37511-56-1 CAPLUS
 CN Pyridinium, 1-(2-methoxy-2-oxoethyl)-2,4-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

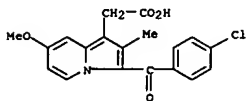
L15 ANSWER 86 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1972:85660 CAPLUS
 DOCUMENT NUMBER: 76:85660
 TITLE: Indolizine analogs of indomethacin
 AUTHOR(S): Casagrande, C.; Invernizzi, A.; Ferrini, R.; Miragoli, G.
 CORPORATE SOURCE: Lab. Ric., Simes S.p.A., Milan, Italy
 SOURCE: Farmaco, Edizione Scientifica (1971), 26(12), 1059-73
 CODEN: FRPSAX; ISSN: 0430-0920
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 76:85660
 GI For diagram(s), see printed CA issue.
 AB Condensation of picolinaldehyde or 4-methoxypicolin-aldehyde with HO2CCH2CO2Et, followed by hydrogenation, followed by treatment with BrCH2COMe, gave I or II, resp. I and II were cyclized (NaHCO3) to give III and IV, resp. Treatment of III or IV with p-ClC6H4COCl, followed by saponification, gave V or VI, resp. III was treated with p-ClC6H4CH2I, and the product saponified, to give VII.
 4-Chloro-2-(chloromethyl)-3-methoxypyridine was hydrogenated and the product treated with BrCH2COMe to give VIII. VIII was cyclized to give IX. Treatment of IX or X with ICH2CO2Et and AlCl3, followed by treatment with p-ClC6H4COCl, followed by saponification, gave XI or XII, resp. In the carrageenin edema test in rats, VI and XI at 50 mg/kg were about as effective as 10 mg/kg indomethacin. In the phenylquinone writhing syndrome in mice, VI, XI, and XII were more active than phenylbutazone, but less active than indomethacin. VI and XII were more effective in the cotton pellet granuloma test in rats at 40 mg/kg than 40 mg/kg phenylbutazone or 4 mg/kg indomethacin. Acute LD50 (i.v.) of VI, XI, and XII were 175, 150, and 205 mg/kg, resp.
 IT 35475-55-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and ring closure of)
 RN 35475-55-9 CAPLUS
 CN Pyridinium, 2-(3-ethoxy-3-oxopropyl)-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)



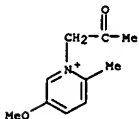
• Br⁻

IT 26466-66-0P 26466-68-2P 35475-57-1P
 35475-65-1P 35475-66-2P 35475-72-0P
 35475-73-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)

L15 ANSWER 86 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 RN 35475-66-2 CAPLUS
 CN 1-Indolizineacetic acid, 3-(4-chlorobenzoyl)-7-methoxy-2-methyl- (9CI) (CA INDEX NAME)

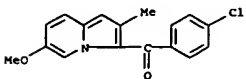


RN 35475-72-0 CAPLUS
 CN Pyridinium, 5-methoxy-2-methyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

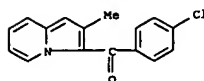


• Br⁻

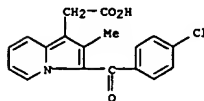
RN 35475-73-1 CAPLUS
 CN Methanone, (4-chlorophenyl) (6-methoxy-2-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)



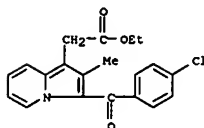
L15 ANSWER 86 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 (prepn. of)
 RN 26466-66-0 CAPLUS
 CN Methanone, (4-chlorophenyl) (2-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)



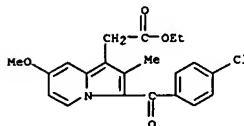
RN 26466-68-2 CAPLUS
 CN 1-Indolizineacetic acid, 3-(4-chlorobenzoyl)-2-methyl- (9CI) (CA INDEX NAME)



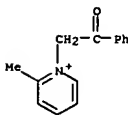
RN 35475-57-1 CAPLUS
 CN 1-Indolizineacetic acid, 3-(4-chlorobenzoyl)-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 35475-65-1 CAPLUS
 CN 1-Indolizineacetic acid, 3-(4-chlorobenzoyl)-7-methoxy-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)

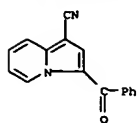


L15 ANSWER 87 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1971:435631 CAPLUS
 DOCUMENT NUMBER: 75:35631
 TITLE: Indolizines from phenacylcyclimonium salts
 AUTHOR(S): Froehlich, Juerg; Kroehnke, Fritz
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Giessen, Giessen, Fed. Rep. Ger.
 SOURCE: Chemische Berichte (1971), 104(5), 1621-8
 CODEN: CHBEAM; ISSN: 0009-2940
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI For diagram(s), see printed CA issue.
 AB Dipolar 1,3-addition of H2C:CHCN to N-ylides, generated in situ by bases from N-phenacylcyclimonium salts (I), e.g. N-phenacylpyridinium bromide gave tetrahydroindolizines (II), e.g. 3-benzoyl-1-cyano-1,2,3,8a-tetrahydroindolizine. II were dehydrogenated to dihydroindolizines (III), e.g. 3-benzoyl-1-cyano-2,3-dihydroindolizine and indolizines (IV), e.g. 3-benzoyl-1-cyanoindolizine.
 IT 32896-98-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclo addition of, with acrylonitrile)
 RN 32896-98-3 CAPLUS
 CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

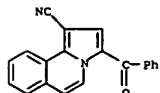


• Br⁻

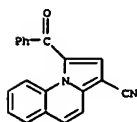
IT 25627-81-0P 25627-83-2P 25627-85-4P
 32896-92-7P 32896-94-9P 32896-95-0P
 32896-96-1P 32896-97-2P 32896-99-4P
 32897-00-0P 32897-01-1P 32897-02-2P
 32897-03-3P 32897-05-5P 32897-08-8P
 32921-07-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 25627-81-0 CAPLUS
 CN 1-Indolizinecarbonitrile, 3-benzoyl- (8CI, 9CI) (CA INDEX NAME)



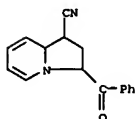
RN 25627-83-2 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1-carbonitrile, 3-benzoyl- (8CI, 9CI) (CA INDEX NAME)



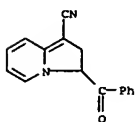
RN 25627-85-4 CAPLUS
CN Pyrrolo[1,2-a]quinoline-3-carbonitrile, 1-benzoyl- (8CI, 9CI) (CA INDEX NAME)



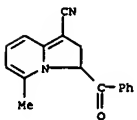
RN 32896-92-7 CAPLUS
CN 1-Indolizinecarbonitrile, 3-benzoyl-1,2,3,8a-tetrahydro- (8CI, 9CI) (CA INDEX NAME)



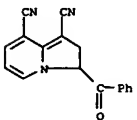
RN 32896-94-9 CAPLUS
CN 3,8-Indolizinedicarbonitrile, 3-benzoyl-1,2,3,8a-tetrahydro- (8CI) (CA INDEX NAME)



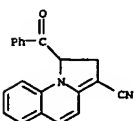
RN 32897-00-0 CAPLUS
CN 1-Indolizinecarbonitrile, 3-benzoyl-2,3-dihydro-5-methyl- (8CI) (CA INDEX NAME)



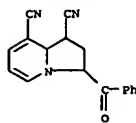
RN 32897-01-1 CAPLUS
CN 3,6-Indolizinedicarbonitrile, 3-benzoyl-2,3-dihydro- (8CI) (CA INDEX NAME)



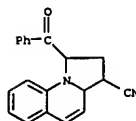
RN 32897-02-2 CAPLUS
CN Pyrrolo[1,2-a]quinoline-3-carbonitrile, 1-benzoyl-1,2-dihydro- (8CI) (CA INDEX NAME)



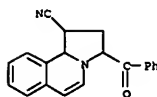
RN 32897-03-3 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1-carbonitrile, 3-benzoyl-2,3-dihydro- (8CI)



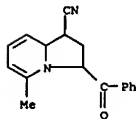
RN 32896-95-0 CAPLUS
CN Pyrrolo[1,2-a]quinoline-3-carbonitrile, 1-benzoyl-1,2,3,3a-tetrahydro- (8CI) (CA INDEX NAME)



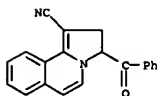
RN 32896-96-1 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1-carbonitrile, 3-benzoyl-1,2,3,10b-tetrahydro- (8CI) (CA INDEX NAME)



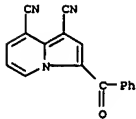
RN 32896-97-2 CAPLUS
CN 1-Indolizinecarbonitrile, 3-benzoyl-1,2,3,8a-tetrahydro-5-methyl- (8CI) (CA INDEX NAME)



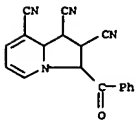
RN 32896-99-4 CAPLUS
CN 1-Indolizinecarbonitrile, 3-benzoyl-2,3-dihydro- (8CI) (CA INDEX NAME)



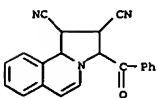
RN 32897-05-5 CAPLUS
CN 3,8-Indolizinedicarbonitrile, 3-benzoyl- (8CI) (CA INDEX NAME)



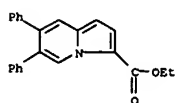
RN 32897-08-8 CAPLUS
CN 1,2,8-Indolizinetricarbonitrile, 3-benzoyl-1,2,3,8a-tetrahydro- (8CI) (CA INDEX NAME)



RN 32921-07-6 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarbonitrile, 3-benzoyl-1,2,3,10b-tetrahydro- (8CI) (CA INDEX NAME)

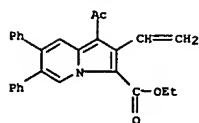


L15 ANSWER 88 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1971:141483 CAPLUS
 DOCUMENT NUMBER: 74:141483
 TITLE: New ring cleavage in quinolizinium compounds and their subsequent reactions
 AUTHOR(S): Moerler, Dieter; Kroehnke, Fritz
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Giessen, Giessen, Fed. Rep. Ger.
 SOURCE: Justus Liebigs Annalen der Chemie (1971), 744, 65-80
 CODEN: JIACBF; ISSN: 0075-4617
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI For diagram(s), see printed CA Issue.
 AB Reaction of 2,3-(R2-disubstituted)quinolizinium bromides (I) with piperidine or morpholine gave with ring opening the corresponding vinyllogous trans,trans-conjugated tetramethines, 4,5-(R2-disubstituted)-2-[4-piperidino(or morpholino)-1,3-butadienyl]pyridines (II) (where R = H, Me, or Ph). The amine group in II is exchangeable in the presence of protons and the heterocyclic N can be acylated and alkylated. The hemicyanines, trans,trans-1-(acylmechyl)-2-(4-piperidino-1,3-butadienyl)pyridinium bromides (III), reacted by intramol. ring closure on contact with Al2O3 to yield the corresponding 2-vinyl-3-acylindolizines (IV).
 IT 24268-79-9P 24307-06-0P 31778-08-2P
 31778-09-3P 31806-76-5P 31806-77-6P
 31806-78-7P 31806-79-8P 31806-80-1P
 31806-82-3P 31806-86-7P 31806-87-8P
 31806-88-9P 31806-89-0P 31806-90-3P
 31806-91-4P
 RL: SPN (Synthetic preparation); PREP (Preparation of preparation of)
 RN 24268-79-9 CAPLUS
 CN 3-Indolizinecarboxylic acid, 6,7-diphenyl-, ethyl ester (8CI) (CA INDEX NAME)

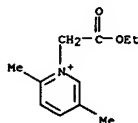


RN 24307-06-0 CAPLUS
 CN 3-Indolizinecarboxylic acid, 1-acetyl-6,7-diphenyl-2-vinyl-, ethyl ester (8CI) (CA INDEX NAME)

L15 ANSWER 88 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

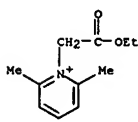


RN 31778-08-2 CAPLUS
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2,5-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

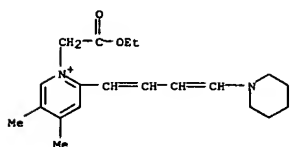
RN 31778-09-3 CAPLUS
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2,6-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

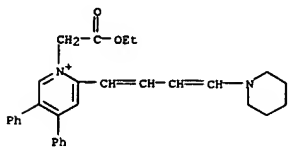
RN 31806-76-5 CAPLUS
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-4,5-dimethyl-2-(4-piperidino-1,3-butadienyl)-, bromide, ethyl ester (8CI) (CA INDEX NAME)

L15 ANSWER 88 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



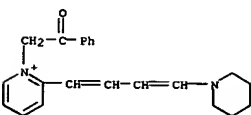
● Br⁻

RN 31806-77-6 CAPLUS
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-4,5-diphenyl-2-(4-piperidino-1,3-butadienyl)-, bromide, ethyl ester (8CI) (CA INDEX NAME)



● Br⁻

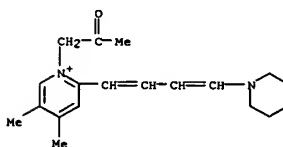
RN 31806-78-7 CAPLUS
 CN Pyridinium, 1-phenacyl-2-(4-piperidino-1,3-butadienyl)-, bromide (8CI) (CA INDEX NAME)



● Br⁻

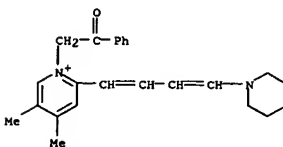
L15 ANSWER 88 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 31806-79-8 CAPLUS
 CN Pyridinium, 1-acetonyl-4,5-dimethyl-2-(4-piperidino-1,3-butadienyl)-, bromide (8CI) (CA INDEX NAME)



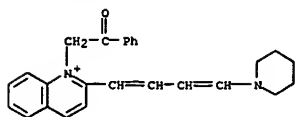
● Br⁻

RN 31806-80-1 CAPLUS
 CN Pyridinium, 4,5-dimethyl-1-phenacyl-2-(4-piperidino-1,3-butadienyl)-, bromide (8CI) (CA INDEX NAME)

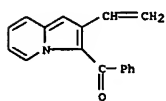


● Br⁻

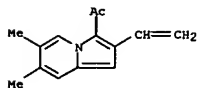
RN 31806-82-3 CAPLUS
 CN Quinolizinium, 1-phenacyl-2-(4-piperidino-1,3-butadienyl)-, bromide (8CI) (CA INDEX NAME)

● Br⁻

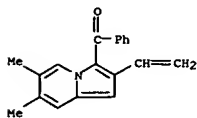
RN 31806-86-7 CAPLUS
CN Ketone, phenyl 2-vinyl-3-indolizinyloxy (8CI) (CA INDEX NAME)



RN 31806-87-8 CAPLUS
CN Ketone, 6,7-dimethyl-2-vinyl-3-indolizinyloxy methyl (8CI) (CA INDEX NAME)

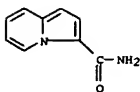


RN 31806-88-9 CAPLUS
CN Ketone, 6,7-dimethyl-2-vinyl-3-indolizinyloxy phenyl (8CI) (CA INDEX NAME)

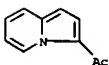


RN 31806-89-0 CAPLUS
CN Ketone, 6,7-diphenyl-2-vinyl-3-indolizinyloxy methyl (8CI) (CA INDEX NAME)

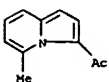
ACCESSION NUMBER: 1971:41557 CAPLUS
DOCUMENT NUMBER: 74:41557
TITLE: Mass spectra of indolizines
AUTHOR(S): Jones, Guinos; Stahyer, J.
CORPORATE SOURCE: Dep. Chem., Univ. Keele, Keele/Staffordshire, UK
SOURCE: Organic Mass Spectrometry (1970), 3(12), 1489-98
CODEN: ORMSBG; ISSN: 0030-493X
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The mass spectra of indolizine, the 7 monomethylindolizines, the 6 2,x-dimethylindolizines and a number of related simple indolizines are reported. The breakdown patterns are compared with those of the corresponding indoles.
IT 22320-27-0 25314-91-4 31108-61-9
RL: PRP (Properties)
(mass spectrum of)
RN 22320-27-0 CAPLUS
CN 3-indolizinecarboxamide (8CI) (CA INDEX NAME)



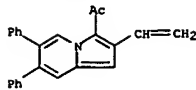
RN 25314-91-4 CAPLUS
CN Ethanone, 1-(3-indolizinyloxy)- (9CI) (CA INDEX NAME)



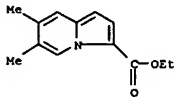
RN 31108-61-9 CAPLUS
CN Ethanone, 1-(5-methyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)



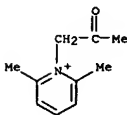
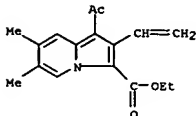
IT 31080-82-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 31080-82-7 CAPLUS
CN Pyridinium, 1-acetonil-2,6-dimethyl-, bromide (8CI) (CA INDEX NAME)



RN 31806-90-3 CAPLUS
CN 3-Indolizinecarboxylic acid, 6,7-dimethyl-, ethyl ester (8CI) (CA INDEX NAME)



RN 31806-91-4 CAPLUS
CN 3-Indolizinecarboxylic acid, 1-acetyl-6,7-dimethyl-2-vinyl-, ethyl ester (8CI) (CA INDEX NAME)

● Br⁻

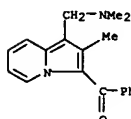
L15 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1970:55285 CAPLUS
 DOCUMENT NUMBER: 72:55285
 TITLE: Analgesic indolizine-1-acetic acids
 INVENTOR(S): Naylor, John H. C.
 PATENT ASSIGNEE(S): Beecham Group Ltd.
 SOURCE: Brit., 10 pp.
 CODEN: BRXXAA
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| GB 1174124 | | 19691210 | GB 1967-30271 | 19670630 |

GI For diagram(s), see printed CA Issue.
 AB The title compds. (I; R = CO₂H) which exhibit analgesic and antiinflammatory activity were prepared
 3-p-Chlorobenzoyl-2-methylindolizine
 (80A), m. 109-10° (light petroleum) was prepared by reacting 2-methylindolizine with p-ClC₆H₄COCl. 5-Ethoxy-2-methylpyridine (38 g) in 150 ml dry Me₂CO refluxed 15 min with 42 g BrCH₂Ac gave 6-ethoxy-2-methylindolizine, b_{0.4} 113-14°. 2,4-Lutidine (21.4 g) added to 40 g BrCH₂Br in 60 ml dry Me₂CO, the mixture refluxed 30 min and kept overnight at room temperature gave 2,4-dimethyl-1-phenacylpyridinium bromide, m. 228-9°. This (10 g) in 100 ml H₂O treated with 30 g NaHCO₃ and the mixture refluxed 2 hr gave 97% 7-methyl-2-phenylindolizine, m. 207° (decomposition). A mixture of 31.5 g 2,7-dimethylindolizine and 28 g anhydrous AcONa in 200 ml Ac₂O refluxed 7 hr gave 70% 3-acetyl-2,7-dimethylindolizine, b_{0.15} 136-8°, m. 87-8° (light petroleum). Similarly prepared were 83% 3-acetyl-7-methyl-2-phenylindolizine, b_{0.35} 180-2°; 89% 3-acetyl-2-(p-methoxyphenyl)-indolizine, m. 103-5° (EtOH); and 80% 3-acetyl-6-ethoxy-2-methylindolizine, b_{0.13} 138-40°, m. 75° (light petroleum). A mixture of 7.25 ml AcOH and 5 ml H₂O cooled to 0°, 3.3 ml anhydrous Me₂NH added dropwise followed by 4 ml 40% aqueous HCHO and 12.45 g 3-benzoyl-2-methylindolizine, and the mixture agitated 6.5 hr gave 89% I (R = NMe₂, R₁ = Me, R₂ = Ph, R₃ = H) (II), m. 88° (light petroleum). The following I (R = NMe₂) were similarly prepared (R₁, R₂, R₃, & yield, and m.p. and (or) b.p. given): Me, p-ClC₆H₄, H, 67, 108°, (light petroleum); Ph, Me, H, 83, 56° (light petroleum); b_{1.4} 168-9°; Ph, Me, H, 25, 105° (aqueous Me₂CO), b_{1.0} 190-2°; Bu, Me, H, 59, b_{7.0} 170-4°; Me, Me, 7-Me, 28, b_{0.35} 167-73°; Ph, Me, 7-Me, 78, 107-8° (light petroleum); p-MeOC₆H₄, Me, H, 12, b_{1.0} 240-50°; and Me, Me, 6-OEt, 54, 79-80° (light petroleum), b_{0.3} 173-5°. MeI (6 ml) added to 9.75 g II in 100 ml EtOH, followed by 5.5 g KCN in 60 ml H₂O, and the mixture refluxed 2 hr gave 74% I (R = CN, R₁ = Me, R₂ = Ph, R₃ = H) (III), m. 132-3° (EtOH). The following I (R = CN) were prepared similarly (R₁, R₂, R₃, & yield, and m.p. given): Me, p-ClC₆H₄, H, 78, 163-4° (EtOH) Me, Me, H, 45-50, 138-9° (MeOH); Ph, Me, H, 97.5, 139° (MeOH); H, Me, H, 78, 130-1° (aqueous EtOH); Bu, Me, H, -, 81-2° (light petroleum); Me, Me, 7-Me, 75, 123-4° (aqueous MeOH); Ph, Me, 7-Me, 95, 186-7° (aqueous MeOH); p-MeOC₆H₄, Me, H, 40,

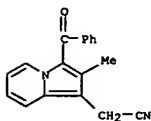
L15 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 -; and Me, Me, 6-OEt, 85, 78° (aq. MeOH). A soln. of 4 g III in 100 ml EtOH added to 8 g KOH in 20 ml H₂O and the mixt. refluxed 24 hr gave 2.5 g I (R = CO₂H, R₁ = Me, R₂ = Ph, R₃ = H), m. 195-7° (MeOH). The following I (R = CO₂H) were similarly prep'd. (R₁, R₂, R₃, & yield, and m.p. given): Me, Me, H (IV), 92, 197-8° (decompn.) (MeOH); Ph, Me, H, 72, 223° (MeOH); H, Me, H, 53, 195-7° (MeOH); Bu, Me, H, 74, 190-1° (decompn.) (aq. MeOH); Me, Me, 7-Me, 40, 204° (decompn.) (MeOH); Ph, Me, 7-Me, 87, 204° (decompn.) (aq. MeOH); p-MeOC₆H₄, Me, H, 67.5, 189-90° (MeOH); and Me, Me, 6-OEt, 60, 187-8° (monohydrate), (MeOH). Treating the corresponding acids in MeOH with CH₂N₂ in Et₂O at room temp. 3 hr gave

the following I (R = CO₂Me) (R₁, R₂, R₃, & yield, and m.p. given): Me, Me, H, 96, 112-13° (light petroleum); H, Me, H, 83, 76-8° (aq. Me₂CO); and Ph, Me, 7-Me, 63, 107-8° (light petroleum). IV Na salt and 1 equiv. Et₂NCH₂CH₂Cl in iso-PrOH refluxed 5 hr gave 54% I (R = CO₂CH₂CH₂NEt₂, R₁ = R₂ = Me, R₃ = H), b_{0.1} 185-90°. Prepn. and phys. data for many of the intermediates were given.
 IT 26466-63-7P 26466-64-8P 26466-65-9P
 26466-66-0P 26466-67-1P 26466-68-2P
 26466-69-3P 26466-70-6P 26466-71-7P
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 26557-47-1P 26557-48-2P 26557-49-3P
 26557-50-6P 26557-51-7P 26557-52-8P
 26557-53-9P 26557-54-0P 26557-55-1P
 26557-57-3P 26557-58-4P 26557-59-5P
 26557-60-8P 26557-61-9P 26557-62-0P
 26557-63-1P 26557-66-4P 26557-67-5P
 26557-68-6P 26557-69-7P 26573-47-7P
 26573-48-8P 26573-49-9P 26573-50-2P
 26573-51-3P 26573-52-4P 26573-53-5P
 26573-54-6P 26573-55-7P 26615-18-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 26466-63-7 CAPLUS
 CN Ketone, 1-[(dimethylamino)methyl]-2-methyl-3-indoliziny phenyl (8CI)
 (CA INDEX NAME)

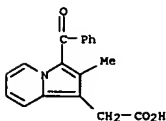


RN 26466-64-8 CAPLUS
 CN 1-Indolizineacetonitrile, 3-benzoyl-2-methyl- (8CI) (CA INDEX NAME)

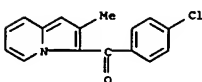
L15 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



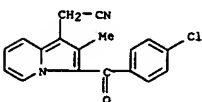
RN 26466-65-9 CAPLUS
 CN 1-Indolizineacetic acid, 3-benzoyl-2-methyl- (8CI) (CA INDEX NAME)



RN 26466-66-0 CAPLUS
 CN Methanone, (4-chlorophenyl)(2-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)

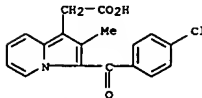


RN 26466-67-1 CAPLUS
 CN 1-Indolizineacetonitrile, 3-(p-chlorobenzoyl)-2-methyl- (8CI) (CA INDEX NAME)

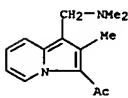


RN 26466-68-2 CAPLUS
 CN 1-Indolizineacetic acid, 3-(4-chlorobenzoyl)-2-methyl- (9CI) (CA INDEX NAME)

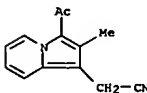
L15 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



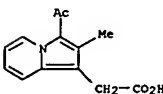
RN 26466-69-3 CAPLUS
 CN Ketone, 1-[(dimethylamino)methyl]-2-methyl-3-indoliziny methyl (8CI)
 (CA INDEX NAME)



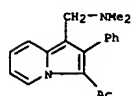
RN 26466-70-6 CAPLUS
 CN 1-Indolizineacetonitrile, 3-acetyl-2-methyl- (8CI) (CA INDEX NAME)



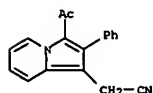
RN 26466-71-7 CAPLUS
 CN 1-Indolizineacetic acid, 3-acetyl-2-methyl- (8CI, 9CI) (CA INDEX NAME)



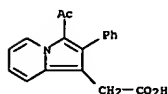
RN 26466-72-8 CAPLUS
 CN Ketone, 1-[(dimethylamino)methyl]-2-phenyl-3-indoliziny methyl (8CI)
 (CA INDEX NAME)



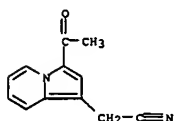
RN 26466-73-9 CAPLUS
CN 1-Indolizineacetonitrile, 3-acetyl-2-phenyl- (8CI) (CA INDEX NAME)



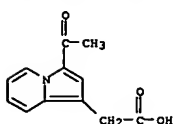
RN 26466-74-0 CAPLUS
CN 1-Indolizineacetic acid, 3-acetyl-2-phenyl- (8CI) (CA INDEX NAME)



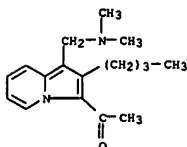
RN 26557-44-8 CAPLUS
CN 1-Indolizineacetonitrile, 3-acetyl- (8CI) (CA INDEX NAME)



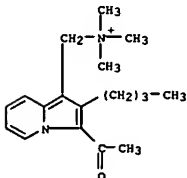
RN 26557-45-9 CAPLUS
CN 1-Indolizineacetic acid, 3-acetyl- (8CI) (CA INDEX NAME)



RN 26557-46-0 CAPLUS
CN Ketone, 2-butyl-1-[(dimethylamino)methyl]-3-indoliziny methyl (8CI) (CA INDEX NAME)

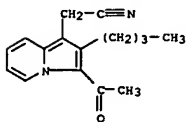


RN 26557-47-1 CAPLUS
CN Ammonium, [(3-acetyl-2-butyl-1-indoliziny)methyl]trimethyl-, iodide (8CI) (CA INDEX NAME)

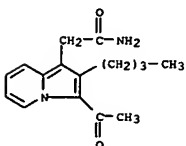


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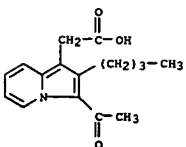
RN 26557-48-2 CAPLUS
CN 1-Indolizineacetonitrile, 3-acetyl-2-butyl- (8CI) (CA INDEX NAME)



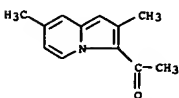
RN 26557-49-3 CAPLUS
CN 1-Indolizineacetamide, 3-acetyl-2-butyl- (8CI) (CA INDEX NAME)



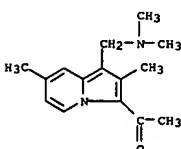
RN 26557-50-6 CAPLUS
CN 1-Indolizineacetic acid, 3-acetyl-2-butyl- (8CI) (CA INDEX NAME)



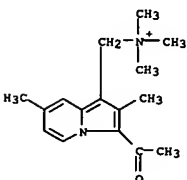
RN 26557-51-7 CAPLUS
CN Ketone, 2,7-dimethyl-3-indoliziny methyl (8CI) (CA INDEX NAME)



RN 26557-52-8 CAPLUS
CN Ketone, 1-[(dimethylamino)methyl]-2,7-dimethyl-3-indoliziny methyl (8CI) (CA INDEX NAME)

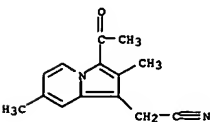


RN 26557-53-9 CAPLUS
CN Ammonium, [(3-acetyl-2,7-dimethyl-1-indoliziny)methyl]trimethyl-, iodide (8CI) (CA INDEX NAME)



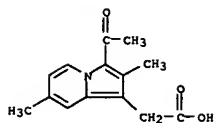
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RN 26557-54-0 CAPLUS
CN 1-Indolizineacetonitrile, 3-acetyl-2,7-dimethyl- (8CI) (CA INDEX NAME)

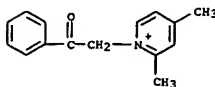


RN 26557-55-1 CAPLUS
CN 1-Indolizineacetic acid, 3-acetyl-2,7-dimethyl- (8CI) (CA INDEX NAME)

L15 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

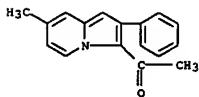


RN 26557-57-3 CAPLUS
CN Pyridinium, 2,4-dimethyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

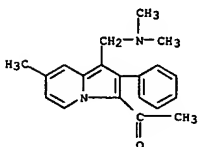


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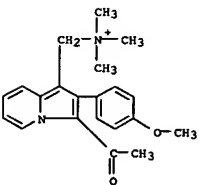
RN 26557-58-4 CAPLUS
CN Ketone, methyl 7-methyl-2-phenyl-3-indolizinylium (8CI) (CA INDEX NAME)



RN 26557-59-5 CAPLUS
CN Ketone, 1-[(dimethylamino)methyl]-7-methyl-2-phenyl-3-indolizinylium methyl (8CI) (CA INDEX NAME)

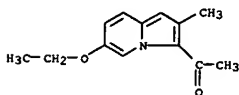


L15 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

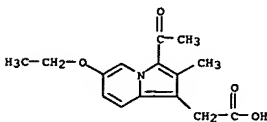


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RN 26557-66-4 CAPLUS
CN Ketone, 6-ethoxy-2-methyl-3-indolizinylium methyl (8CI) (CA INDEX NAME)



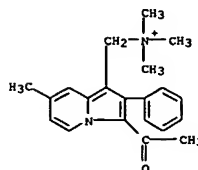
RN 26557-67-5 CAPLUS
CN 1-Indolizineacetic acid, 3-acetyl-6-ethoxy-2-methyl- (8CI) (CA INDEX NAME)



RN 26557-68-6 CAPLUS
CN 1-Indolizineacetic acid, 3-acetyl-2-methyl-, methyl ester (8CI) (CA INDEX NAME)

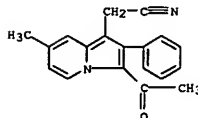
L15 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 26557-60-8 CAPLUS
CN Ammonium, [(3-acetyl-7-methyl-2-phenyl-1-indolizinylium)methyl]trimethyl-, iodide (8CI) (CA INDEX NAME)

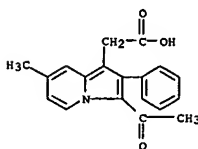


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RN 26557-61-9 CAPLUS
CN 1-Indolizineacetonitrile, 3-acetyl-7-methyl-2-phenyl- (8CI) (CA INDEX NAME)

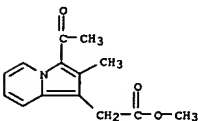


RN 26557-62-0 CAPLUS
CN 1-Indolizineacetic acid, 3-acetyl-7-methyl-2-phenyl- (8CI) (CA INDEX NAME)

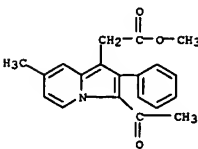


RN 26557-63-1 CAPLUS
CN Ammonium, [(3-acetyl-2-(p-methoxyphenyl)-1-indolizinylium)methyl]trimethyl-, iodide (8CI) (CA INDEX NAME)

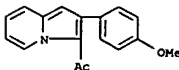
L15 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



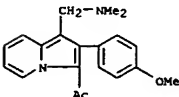
RN 26557-69-7 CAPLUS
CN 1-Indolizineacetic acid, 3-acetyl-7-methyl-2-phenyl-, methyl ester (8CI) (CA INDEX NAME)



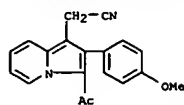
RN 26573-47-7 CAPLUS
CN Ethanone, 1-[2-(4-methoxyphenyl)-3-indolizinylium]- (9CI) (CA INDEX NAME)



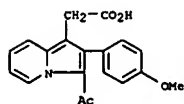
RN 26573-48-8 CAPLUS
CN Ketone, 1-[(dimethylamino)methyl]-2-(p-methoxyphenyl)-3-indolizinylium methyl (8CI) (CA INDEX NAME)



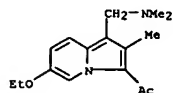
RN 26573-49-9 CAPLUS
CN 1-Indolizineacetonitrile, 3-acetyl-2-(p-methoxyphenyl)- (8CI) (CA INDEX NAME)



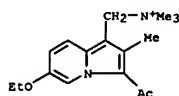
RN 26573-50-2 CAPLUS
CN 1-Indolizineacetic acid, 3-acetyl-2-(p-methoxyphenyl)- (8CI) (CA INDEX NAME)



RN 26573-51-3 CAPLUS
CN Ketone, 1-[(dimethylamino)methyl]-6-ethoxy-2-methyl-3-indoliziny methyl (8CI) (CA INDEX NAME)



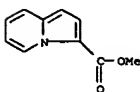
RN 26573-52-4 CAPLUS
CN Ammonium, [(3-acetyl-6-ethoxy-2-methyl-1-indoliziny)methyl]trimethyl-, iodide (8CI) (CA INDEX NAME)



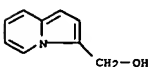
● I⁻

RN 26573-53-5 CAPLUS
CN 1-Indolizineacetonitrile, 3-acetyl-6-ethoxy-2-methyl- (8CI) (CA INDEX NAME)

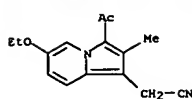
L15 ANSWER 91 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1969:114982 CAPLUS
DOCUMENT NUMBER: 70:114982
TITLE: Synthesis of some hydroxymethyl- and aminomethylindolizines
AUTHOR(S): Jones, Guznos; Stanyer, J.
CORPORATE SOURCE: Univ. Keele, Keele, UK
SOURCE: Journal of the Chemical Society (Section) C: Organic (1969), (6), 901-5
CODEN: JSOQAX; ISSN: 0022-4952
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 70:114982
AB Syntheses are reported of 2-hydroxymethylindolizine 3-hydroxy-methylindolizine, and 2-methyl-6-hydroxymethylindolizine. Attempts to prepare 1-hydroxymethyl-2-methylindolizine by reduction of the corresponding ethoxycarbonyl derivative or by a Chichibabin synthesis from a 2-pyridylethanol derivative were unsuccessful, although 1-(2-hydroxyethyl)-2-methylindolizine was so obtained. The very unstable 2-aminomethylindolizine and 7-aminomethyl-2-methylindolizine were obtained by reduction of the corresponding nitriles; attempts to obtain 6-aminomethyl-2-methylindolizine are described.
IT 22320-25-8P 22320-26-9P 22320-27-0P
22320-31-6P 22320-34-9P 22320-35-0P
22320-38-3P 22380-17-2P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
RN 22320-25-8 CAPLUS
CN 3-Indolizinecarboxylic acid, methyl ester (8CI, 9CI) (CA INDEX NAME)



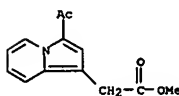
RN 22320-26-9 CAPLUS
CN 3-Indolizinecarboxylic acid, methyl ester (8CI, 9CI) (CA INDEX NAME)



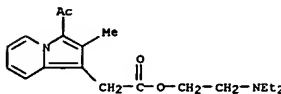
RN 22320-27-0 CAPLUS
CN 3-Indolizinecarboxamide (8CI) (CA INDEX NAME)



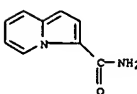
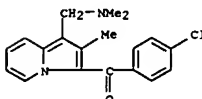
RN 26573-54-6 CAPLUS
CN 1-Indolizineacetic acid, 3-acetyl-, methyl ester (8CI) (CA INDEX NAME)



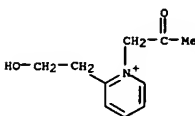
RN 26573-55-7 CAPLUS
CN Ketone, 1-[(dimethylamino)methyl]-6-ethoxy-2-methyl-3-indoliziny methyl (8CI) (CA INDEX NAME)



RN 26615-18-9 CAPLUS
CN Ketone, p-chlorophenyl 1-[(dimethylamino)methyl]-2-methyl-3-indoliziny methyl (8CI) (CA INDEX NAME)

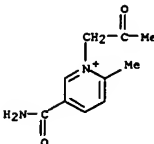


RN 22320-31-6 CAPLUS
CN Pyridinium, 1-acetonil-2-(2-hydroxyethyl)-, bromide (8CI) (CA INDEX NAME)



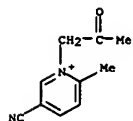
● Br⁻

RN 22320-34-9 CAPLUS
CN Pyridinium, 5-(aminocarbonyl)-2-methyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

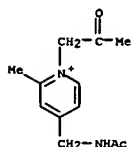


● Br⁻

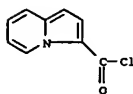
RN 22320-35-0 CAPLUS
CN 2-Picolinium, 1-acetonil-5-cyano-, bromide (8CI) (CA INDEX NAME)

● Br⁻

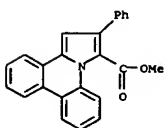
RN 22320-38-3 CAPLUS
CN Pyridinium, 4-(acetamidomethyl)-1-acetonyl-2-methyl-, bromide (8CI) (CA INDEX NAME)

● Br⁻

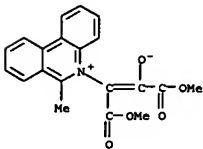
RN 22380-17-2 CAPLUS
CN 3-Indolizinecarbonyl chloride (8CI, 9CI) (CA INDEX NAME)



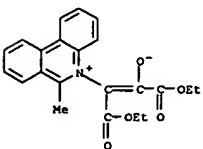
RN 16511-61-8 CAPLUS
CN Pyrrolo[1,2-f]phenanthridine-3-carboxylic acid, 2-phenyl-, methyl ester (8CI) (CA INDEX NAME)



RN 16511-65-2 CAPLUS
CN Phenanthridinium, 5-(1,2-dicarboxy-2-hydroxyvinyl)-6-methyl-, hydroxide, inner salt, dimethyl ester (8CI) (CA INDEX NAME)



RN 16511-66-3 CAPLUS
CN Phenanthridinium, 5-(1,2-dicarboxy-2-hydroxyvinyl)-6-methyl-, hydroxide, inner salt, diethyl ester (8CI) (CA INDEX NAME)



RN 16610-61-0 CAPLUS
CN Pyrrolo[1,2-f]phenanthridine-2,3-dicarboxylic acid, dimethyl ester (8CI) (CA INDEX NAME)

L15 ANSWER 92 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1967:508549 CAPLUS
DOCUMENT NUMBER: 67:108549
TITLE: Addition reactions of heterocyclic compounds.
XCVIII.

AUTHOR(S): Synthesis of phenanthridinium-5-vinyl oxides and pyrrolo[1,2-f]phenanthridines
Acheson, Richard M.; Bailey, Arthur Sydney; Selby, I. A.

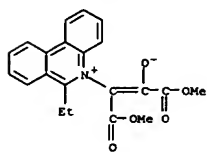
CORPORATE SOURCE: Dyson Perrins Lab. Dep. Iochem., Oxford, UK
SOURCE: Journal of the Chemical Society [Section] C: Organic (1967), (20), 2066-71
CODEN: JSOQAX; ISSN: 0022-4952

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 67:108549

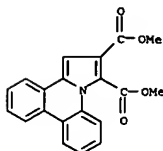
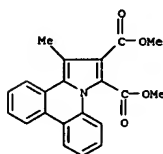
AB cf. CA 67: 82053q. Dimethyl acetylenedicarboxylate and other acetylenic esters add to phenanthridine 5-oxides to give phenanthridinium-5-vinyl oxides (I), which, if a 6-alkyl group is present, readily cyclize to methoxycarbonylpyrrolo[1,2-f]phenanthridines. Hydrolysis and decarboxylation give pyrrolo[1,2-f]phenanthridine (II) and derivs. The N.M.R. spectra of these compds. were partially analyzed. 29 references.

IT 16511-51-6P 16511-58-3P 16511-61-8P
16511-65-2P 16511-66-3P 16610-61-0P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

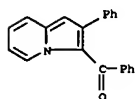
RN 16511-51-6 CAPLUS
CN Phenanthridinium, 5-(1,2-dicarboxy-2-hydroxyvinyl)-6-ethyl-, hydroxide, inner salt, dimethyl ester (8CI) (CA INDEX NAME)



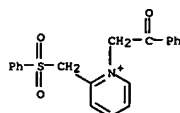
RN 16511-58-3 CAPLUS
CN Pyrrolo[1,2-f]phenanthridine-2,3-dicarboxylic acid, 1-methyl-, dimethyl ester (8CI) (CA INDEX NAME)



L15 ANSWER 93 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1967:411420 CAPLUS
 DOCUMENT NUMBER: 67:11420
 TITLE: Indolizines. IV. Syntheses from 2-acylmethylene-1-benzyl-1,2-dihydropyridine, phenyl 2-picoyl sulfone, and related compounds
 AUTHOR(S): Melton, Timothy; Wibberley, Denman G.; Green, Gosta
 CORPORATE SOURCE: Sunderland Tech. Coll., Sunderland, UK
 SOURCE: Journal of the Chemical Society [Section] C: Organic (1967), 167(10), 983-8
 CODEN: JSOQAX; ISSN: 0022-4952
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 67:11420
 GI For diagram(s), see printed CA Issue.
 AB cf. CA 62: 16188g. The scope of a new route to indolizine (I) derivs., which involves ring-closure at the 2-3 positions, was investigated. In this method, suitable 2-acyl- and 2-ethoxycarbonylmethylene-1-benzyl-1,2-dihydropyridines are cyclized to 2-acetoxy-3-aryl-, 2,3-diaryl-, and 2-alkyl-3-aryl-1-acetylindolizines by the action of Ac2O. Preps. of 1-amino- and 1-aminoethylindolizines were continued. Indoliziny sulfones were synthesized from phenyl 2-picoyl sulfone.
 IT 14759-45-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (mixture with phenyl 2-phenyl-1-indoliziny ketone)
 RN 14759-45-6 CAPLUS
 CN Methanone, phenyl(2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



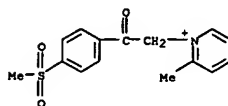
IT 14759-55-8P 14759-57-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 14759-55-8 CAPLUS
 CN Pyridinium, 1-phenacyl-2-[(phenylsulfonyl)methyl]-, bromide (8CI) (CA INDEX NAME)



● Br⁻

L15 ANSWER 94 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1967:18643 CAPLUS
 DOCUMENT NUMBER: 66:18643
 TITLE: Synthesis of the benzo[a]- and naphtho[2,3-b]indolizine ring system
 AUTHOR(S): Augstein, Wolfgang; Kroehnke, Fritz
 CORPORATE SOURCE: Univ. Gießen, Gießen, Germany
 SOURCE: Justus Liebigs Annalen der Chemie (1966), 697, 158-70
 CODEN: JLABCF; ISSN: 0075-4617
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 66:18643
 GI For diagram(s), see printed CA Issue.
 AB N-Picrylmethylcyclimonium betaines (I) (prepared, with 1 exception, by quaternization of the appropriate cyclamine with the resp. α-bromoacetophenone) are converted with alkaline agents with cleavage of HNO₂ into benzo[a]indolizines (II), whose structure was shown by their mode of formation and by an independent synthesis. II show the characteristic nucleophilic reactivity of the methine group on the N atom of the pyrrole nucleus for indolizines and fluoresce red in uv light. From the analogous (to I)
 N-(3-chloronaphthoquinon-2-ylmethyl)cyclimonium betaines (III) were formed derivs. of naphtho[2,3-b]indolizine (IV). Fluorescence in uv light was determined in approx. 1:3 HCONMe₂ (DMF)-CSH₆, unless otherwise stated. A cold (0°) solution or suspension of 20 millimoles appropriate cyclimonium salt in 100 cc. H₂O combined under intensive stirring with 4.94 g. picryl chloride in 100 cc. CHCl₃ and then with a cold (0°) solution of 5.52 g. K₂CO₃ in 50 cc. H₂O and the mixture stirred 30 min. gave, in several cases, I directly as a precipitate; when I did not sep., the phases were separated, and the CHCl₃ layer was diluted with a 4-fold volume ligroine and kept several hrs. at room temperature; pure I were obtained by reprecip. from Me₂SO with H₂O; the picrates were obtained from solns. of I in Me₂SO with picric acid. Without phase separation was obtained after reprecip. 7.6-7.7 g. I (R = R₁ = H, Ar = Ph), violet black prisms, m. 154° (explodes), giving deep violet solns.; picrate, garnet-red prisms, m. 147-8° (decomposition). Without phase separation was obtained 5.4 g. I (R = R₁ = H, (ArCO.dbiharw.)CN) (V), black prisms, m. 154-5° (decomposition); picrate, black prisms, m. 154-5° (decomposition). By phase separation, dilution of the CHCl₃ layer with ligroine and keeping 3 hrs. at room temperature was obtained after reprecip. 7.4-7.6 g. I (R = Me, R₁ = H, Ar = Ph), m. 154-5° (decomposition); picrate m. 262-4° (decomposition). By phase separation, dilution of the CHCl₃ layer with ligroine, and cooling 2 hrs. at -15° was obtained after reprecip. 7.6-7.8 g. I (R = H, R₁ = Me, Ar = Ph), m. 140° (explodes); picrate m. 262-4° (decomposition). After reprecip. was obtained 78-81 g. I (Ar = Ph, isoquinolinium group instead of pyridinium group), m. 114-16° (decomposition); picrate m. 108-7° (decomposition). To 10 millimoles appropriate I dissolved or suspended in 30 cc. Me₂SO at room temperature was added 1.7 g. piperidine and the mixture kept 3 hrs. with occasional stirring, diluted with 70 cc. approx. 2N AcOH, and kept 1 hr. to give the corresponding

L15 ANSWER 93 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 RN 14759-57-0 CAPLUS
 CN 2-Picolinium, 1-[p-(methylsulfonyl)phenacyl]-, bromide (8CI) (CA INDEX NAME)



● Br⁻

L15 ANSWER 94 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 HCONMe₂ (DMF) (5 cc./g.), there was obtained 3.48 g. II (Ar = Ph) (VI), m. 268-70° (decompn.), and similarly II [(ArCO.dbiharw.)CN] (VII), decompd. >335°, VIII, m. 283° (explodes), IX, m. 276-8° (decompn.), and X, m. 225-7° (decompn.). Appropriate Va (10 millimoles) heated 10 min. in a boiling water bath with 20 cc. concd. H₂SO₄, the soln. cooled to room temp., dild. with 20 cc. H₂O, and cooled to 0°, and the ppt. filtered off on a glass frit and washed with 20 cc. cold (0°) 50% H₂SO₄ gave >90% BzOH; the filtrate treated with 300 cc. hot H₂O with stirring and kept 2 hrs. gave corresponding dinitrobenzo[a]indolizine (Xa), dried at 180° to remove solvent. From VI was obtained after recrystn. from DMF (15 cc./g.) almost quant. 7,9-dinitrobenzo[a]indolizine (XI), almost black prisms, m. 308-10° (decompn.), fluorescing dark red only in soln. 2-o-Tolylpyridine (Fery and van Hove, CA 55, 1604d) (8.46 g.) added dropwise slowly to a mixt. of 11 cc. fuming HNO₃ (d. 1.52) and 16 cc. concd. H₂SO₄ at <100° with stirring, the soln. heated 30 min. on a boiling water bath, cooled to room temp., poured onto 100 g. crushed ice gave 7.6-8.2 g. 4',6'-dinitro-2-o-tolylpyridine (XII), m. 131-3° (ECHO). XII (1.29 g.) and 1.26 g. iodine in 5 cc. C₅H₅N heated 2 hrs. at 115-20° (bath), cooled, dild. with 5 cc. MeOH, treated with 5 cc. 2N NaOH, refluxed 10 min., and cooled, gave 0.3 g. XI. A suspension of 4.04 g. (2,4,6-trinitrobenzyl)pyridinium perchlorate in 100 cc. 50% MeOH heated to boiling, 11 cc. 2N NaOH added, the mixt. heated 30 min. and added to 30 cc. hot H₂O with stirring, and the ppt. sepd. by centrifugation gave 2.4-2.5 g. XI. V treated by the general procedure (strong foaming occurred) gave 2.3 g. crude XI. VIII treated by the general procedure (VIII was heated 15 min. with H₂SO₄) gave 2.58 g. 4-Me deriv. of XI, m. 314-16° (decompn.) (DMF). From IX was similarly obtained 2.56 g. 3-Me deriv. of XI, m. 304-6° (decompn.) (DMF). X treated by the general procedure (only 18 cc. H₂O was added in this case) gave 2.78 g. 9,11-dinitrodibenz[a,g]indolizine, brown violet prisms, decompd. >330° (DMF). XI (1.28 g.) in 5 cc. BzCl boiled 1 min. (HCl evolved), cooled, dild. with 10 cc. MeOH, and cooled 1 hr. at 0° gave 1.48 g. VI. Bz₂O can be used in lieu of BzCl. Xa (10 millimoles) in 30 cc. concd. HCl mixed with 30 cc. AcOH, 1.38 g. finely powd. NaNO₂ added, and the mixt. heated 30 min. at 50-60°, treated with 0.69 g. NaNO₂, heated 30 min., treated while hot with 300 cc. H₂O with stirring, and brought to pH 6-6.5 with aq. NaOH gave the 6-nitroso deriv. From XI was obtained after recrystn. from DMF (50 cc./g.) 2.7 g. XIII, dark green prisms, m. 278-80° (decompn.) (sinters above 255°). To PhN₂Cl soln. (from 2.04 g. aniline and NaNO₂) was added a soln. of 5.14 g. XI in 50 cc. concd. HCl at 10° with stirring and ice cooling, and the mixt. kept 30 min. at 0-10° and kept 2 hrs. at room temp. to give 4.5 g. XIV, m. 253-5° (decompn.) (DMF). To an aq. suspension of the diazonium betaine from 3.73 g. 4-H₂NC₆H₄SO₃H and NaNO₂ was added a soln. of 5.14 g. XI in 50 cc. concd. HCl at <10° and worked up and the dye purified by extn. with boiling DMF (3 cc./g.) to give 7.3 g. XV.0.5H₂O, red brown powder, m. 246-8° (explodes). XI (2.57 g.) in 50 cc. concd. HCl kept 1 hr. with 7.12 g. granulated Sn and the mixt. refluxed until complete dissoln. of the Sn, cooled to room temp., and dild. with 50 cc. H₂O gave (including 0.5 g. product obtained by strong concn. of the filtrate) 4.6-4.8 g. 7,9-diaminobenzo[a]indolizine hexachlorostannate (XVI.H₂SnCl₆), decompd. >300°, from which XVI could not be obtained by treatment with H₂S. In an electrolysis vessel (cathode: Cu gauze, anode: C rod in clay diaphragm with 2N HCl), a

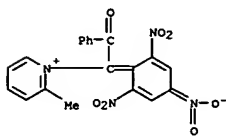
L15 ANSWER 94 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 suspension of 5.3 g. XVI.H2SnCl6 in 200 cc. 2N HCl was electrolyzed (4-5 v., 2-5 amp.) with stirring until dissoln. of the complex and Sn was no longer detected in soln.; the soln. evapd., and the residue extd. with boiling MeOH (5 cc./g.) gave 2.4 g. XVI.2HCl, other-colored prisms, m. 303-5° (decompn.) (darkens >250°), fluorescing yellow green in the solid state and in MeOH, sensitive to light. (XVI.2HCl treated with 70% HClO4 gave XVI.HClO4, lemon-yellow prisms, m. 235-7° (decomp.). Addn. of aq. NaOH to aq. solns. of XVI.-2HCl and XVI.HClO4 deposited XVI as orange yellow flakes which could not be isolated because of its great instability. Tetrazotization of XVI.2HCl gave a black polymer, decompd. >350°. XVI.2HCl (1.35 g.) in C5H5N reacted with excess BzCl and dild. with H2O gave 1.28 g. di-Bz deriv. of XVI, yellow leaflets, m. 251-3° (decompn.) (DMF-EtOH). The solns. or suspensions of 20 millimoles appropriate cyclismonium salt in 100 cc. H2O combined with 4.54 g. 2,3-dichloronaphthoquinone in 70 cc. hot CHCl3 and then with 5.52 g. K2CO3 in 50 cc. H2O, the mixt. stirred 30 min., the phases sepd., and the CHCl3 phase dild. with a 5-fold vol. ligroine and kept several hrs. at -15° gave III, rather unstable compds. which could not be recrystd. or reprecipd. without decompn. Thus were obtained 5.7-6.0 g. III (R = H), almost black prisms; 6.8-7.0 g. III (R = Me), violet black powder, m. 85-8° (decompn.); and 6.5-6.8 g. N-(3-chloronaphthoquinon-2-ylphenacyl)isoquinolinium betaine (XVII),

black green prisms. Freshly prepd. III (10 millimoles) suspended in 50 cc. EtOH treated with 10 cc. corresponding cyclamine, the mixt. refluxed on a water bath until the blue green color of the III disappeared, and the ppt. filtered, washed with MeOH and Et2O, and dried at 180° gave corresponding IV. Thus were obtained: from III (R = H) 3.2 g. IV (R =

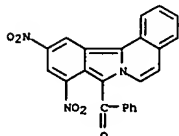
H), red prisms, m. 251-3° (decompn.) (DMF); from III (R = Me) 1.7 g. IV (R = Me), red prisms, m. 236-8° (decompn.); and from XVII 2.0 g. XVIII orange yellow prisms, m. 303-5°. III (R = H) (10 millimoles) suspended in 20 cc. concd. H2SO4 (deep blue color formed at once), the mixt. heated 5-7 min. at 190-210° (bath) (SO2 evolved) and neutralized with strong aq. NaOH, and the ppt. centrifuged, washed with H2O, MeOH, and Et2O gave 1.9 g. presumably XIX, red violet leaflets, m. 405-10° (quinoline); the alk. mother liquor on acidification gave BzOH.

IT 13141-52-1P 13141-55-4P 13141-57-6P
 13141-58-7P 13141-59-8P 14975-78-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 13141-52-1 CAPLUS
 CN 2-Picolinium, 1-[α-(2,6-dinitro-4-aci-nitro-2,5-cyclohexadien-1-ylidene)phenacyl]-, hydroxide, inner salt (8CI) (CA INDEX NAME)



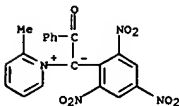
L15 ANSWER 94 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



RN 14975-78-1 CAPLUS
 CN 2-Picolinium, 1-[α-(2,6-dinitro-4-aci-nitro-2,5-cyclohexadien-1-ylidene)phenacyl]-, hydroxide, inner salt, picrate (8CI) (CA INDEX NAME)

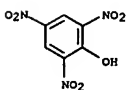
CM 1

CRN 51391-08-3
 CHF C20 H14 N4 O7



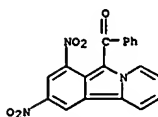
CM 2

CRN 88-89-1
 CHF C6 H3 N3 O7

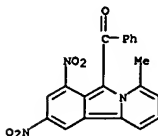


L15 ANSWER 94 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

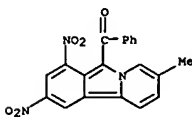
RN 13141-55-4 CAPLUS
 CN Ketone, 7,9-dinitropyrido[2,1-a]isoindol-6-yl phenyl (8CI) (CA INDEX NAME)



RN 13141-57-6 CAPLUS
 CN Ketone, 4-methyl-7,9-dinitropyrido[2,1-a]isoindol-6-yl phenyl (8CI) (CA INDEX NAME)



RN 13141-58-7 CAPLUS
 CN Ketone, 3-methyl-7,9-dinitropyrido[2,1-a]isoindol-6-yl phenyl (8CI) (CA INDEX NAME)



RN 13141-59-8 CAPLUS
 CN Ketone, 9,11-dinitroisoindolo[1,2-a]isoquinolin-8-yl phenyl (8CI) (CA INDEX NAME)

L15 ANSWER 95 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN

ACCESSION NUMBER: 1965:90768 CAPLUS
 DOCUMENT NUMBER: 62:90768
 ORIGINAL REFERENCE NO.: 62:16188b-g
 TITLE: Hydrogenated derivatives of benz[f]- and benz[g]-isoquinolines
 AUTHOR(S): Urban, R.; Schneider, O.
 CORPORATE SOURCE: F. Hoffmann-LaRoche Co., A.-G., Basel, Switz.
 SOURCE: Monatshefte fuer Chemie (1965), 96(1), 9-24
 CODEN: MOCHB7; ISSN: 0026-9247
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 62:90768

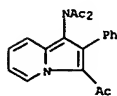
AB Derivs. of hexahydro- and octahydrobenzisoquinoline were synthesized and their analgesic activities determined. Starting with Tetralin, the β-aminoalkyl substituent was introduced according to standard procedures by chloromethylation, treatment of the intermediates with NaCN,

conversion of the formed cyanomethyltetralins with ethyl acetoacetate and NaOEt in EtOH to the corresponding acetyl derivs., acidic hydrolysis of the CN groups of latter compds to ketones and subsequent hydrogenation of the products in the presence of NH3. The α-isomer of the obtained amines, the 1-(2-aminopropyl)-5,6,7,8-tetrahydronaphthalene, n24D 1.5460 (hydrochloride m. 221-3°) was converted into the N-acetyl derivative, m. 127-8°, by dissolving 20 g. of the base in 29 ml. Ac2O and recrystg. the product from Ac2O. Refluxing 2 hrs. a mixture of 23 g. of the acetate, 27 ml. POCl3, and 100 ml. anhydrous C6H6, evaporation of the solvent, dissoln. in EtOH, repeated evaporation, dissoln. of the residue in K2CO3-containing H2O, treatment of the mixture with C6H6, extraction of the free base with 3N HCl, evaporation of the acidic solution, and recrystn. of the hydrochloride from MeOH-Et2O gave 20.5 g. 2,4-dimethyl-1,2,7,8,9,10-hexahydrobenz[f]isoquinoline, hydrochloride m. 273-5°. Catalytic reduction of 50 g. of this compound in 500 ml. Ac2O in the presence of 3 g. PtO2

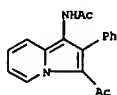
afforded 40 g. 2,4-dimethyl-1,2,3,4,7,8,9,10-octahydrobenz[f]isoquinoline, hydrochloride m. 295-6°. The free base, obtained from 21 g. of the salt, was dissolved in 150 ml. MeOH, mixed with 8.5 ml. 38% CH2O solution and hydrogenated at room temperature in the presence of Raney Ni. Extraction of the product with Et2O, acidification of the solution with alc. HCl, evaporation of the acidic solution, dissoln. of the residue in Me2CO, and precipitation of the product with Et2O gave 13 g. 2,3,4-trimethyl-1,2,3,4,7,8,9,10-octahydrobenz[f]isoquinoline (II), hydrochloride m. 198-9°. Unsubstituted 1,2,3,4,6,7,8,9-octahydrobenz[g]isoquinoline (II) (hydrochloride m. 276-8°), was obtained from 2-(2-aminoethyl)-5,6,7,8-tetrahydronaphthalene by adding a solution of 100 g. of the latter in 1200 ml. Et2O to a mixture of 28 g. LiAlH4 in 600 ml. anhydrous Et2O, agitating

the suspension 1 hr., adding 60 ml. H2O and 1400 ml. 3N NaOH, filtering off the gel-like precipitate, drying the filtrate over Na2SO4, evaporating the

L15 ANSWER 95 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 solvents, and distg. the residue at 137-9°/10 mm. The
 B-isomer of the original mixt. of 8-aminoalkylated Tetralin,
 2-(2-aminoethyl)-5,6,7,8-tetrahydronaphthalene, b. 143-6°/13 mm.,
 n_D20 1.5420 (hydrochloride m. 216-18°), was converted in 24% yield to
 3-methyl-1,2,3,4,6,7,8,9-octahydrobenz[glisoquinoline, b.
 169-70°/7 mm., m. 83-5° (hydrochloride m. 271-3°), by
 heating a mixt. of 10 g. of the former compd., 40 ml. 38% CH₂O soln., and
 120 ml. 2N HCl 6 hrs. at 60°, cooling the soln., and filtering off
 the pptd. hydrochloride. The cyclization process with POCl₃ was also
 successfully applied for the prepn. of 1-substituted benz[glisoquinoline
 compds., which were thus obtained by treatment of the N-acetyl derivs. of
 the corresponding aminoalkyl derivs. of Tetralin with POCl₃ in C₆H₆. The
 intermediate 3,4,6,7,8,9-hexahydrobenz[glisoquinolines could not be
 distd. and were therefore directly hydrogenated to the corresponding
 1,2,3,4,6,7,8,9-octahydrobenz[glisoquinolines.
 IT 3242-98-6, Diacetamide, N-(3-acetyl-2-phenyl-1-indoliziny)-
 3242-99-7, Ketone, 1-acetamido-2-phenyl-3-indoliziny methyl
 3473-95-8, Pyridinium, 2-(acetamidomethyl)-1-phenacyl-, bromide
 3473-96-9, Pyridinium, 2-(hydroxymethyl)-1-phenacyl-, bromide
 3473-97-0, Pyridinium, 2-(hydroxymethyl)-1-phenacyl-, bromide,
 acetate
 (preparation of)
 RN 3242-98-6 CAPLUS
 CN Diacetamide, N-(3-acetyl-2-phenyl-1-indoliziny)- (7CI, 8CI) (CA INDEX
 NAME)

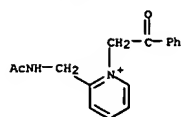


RN 3242-99-7 CAPLUS
 CN Acetamide, N-(3-acetyl-2-phenyl-1-indoliziny)- (8CI) (CA INDEX NAME)



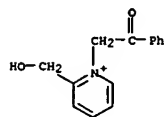
RN 3473-95-8 CAPLUS
 CN Pyridinium, 2-(acetamidomethyl)-1-phenacyl-, bromide (8CI) (CA INDEX NAME)

L15 ANSWER 95 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



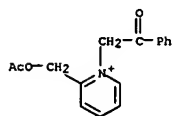
● Br⁻

RN 3473-96-9 CAPLUS
 CN Pyridinium, 2-(hydroxymethyl)-1-phenacyl-, bromide (8CI) (CA INDEX NAME)



● Br⁻

RN 3473-97-0 CAPLUS
 CN Pyridinium, 2-(hydroxymethyl)-1-phenacyl-, bromide, acetate (8CI) (CA INDEX NAME)

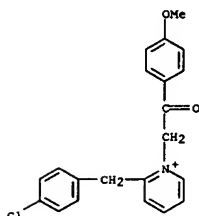


● Br⁻

L15 ANSWER 96 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1965:51497 CAPLUS
 DOCUMENT NUMBER: 62:51497
 ORIGINAL REFERENCE NO.: 62:9094a-c
 TITLE: Arylindolizines. III. Methoxyl and glyoxyl
 derivatives
 AUTHOR(S): of several phenylindolizines
 VENTURELLA, Vincent S.
 CORPORATE SOURCE: Fordham Univ., New York, NY
 SOURCE: Journal of Pharmaceutical Sciences (1964), 53(10),
 1166-9
 CODEN: JPMSAE; ISSN: 0022-3549
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 62:51497
 GI For diagram(s), see printed CA Issue.
 AB cf. CA 60, 501b, 10647f. Derivs. of I (R₂ = H) were prepared
 2-Benzyl-1-(p-methoxyphenacyl)pyridinium bromide (II) (40 g.) and 1.5 l.
 saturated NaHCO₃ solution refluxed 6 hrs. and kept at room temperature
 overnight gave
 93% I (R = R₂ = H, R₁ = MeO) (III), m. 97-8° (aqueous Me₂CO). I (R =
 Cl, R₁ = MeO, R₂ = H) (IV), m. 118-5°, was prepared similarly by
 cyclization of 2-(p-chlorobenzyl)-1-(p-methoxyphenacyl)pyridinium bromide
 (V). III and IV refluxed 6 hrs. with 30% HBr-AcOH produced I (R = R₂ =
 H,
 R₁ = OH), m. 156-7° (decomposition), and I (R = Cl, R₁ = OH, R₂ = H), m.
 130-1°, resp. Ethoxalyl derivs. (I) (R₂ = EtO₂CCO) (VI) were
 prepared by refluxing for 90 min. the appropriate 1,2-diarylindolizine
 with
 1.05 molar equivs. EtO₂CCOCl in C₆H₆. VI refluxed 10 hrs. in 5N NaOH,
 followed by acidification of the Na salts produced, gave the
 corresponding
 carboxycarbonyl compds. 3-Piperidinooxalyl derivs. of I were obtained by
 refluxing VI in excess piperidine 12 hrs. The following I were prepared
 (R,
 R₁, R₂, and m.p. given): H, Br, EtO₂CCO, 190-2°; Cl, NO₂, EtO₂CCO,
 215-5°; Cl, Br, EtO₂CCO, 179-5°; H, NO₂, EtO₂CCO, 193% H,
 Br, HO₂CCO, 179°; Cl, NO₂, HO₂CCO, 193-5°; Cl, Br, HO₂CCO,
 174-5°; H, NO₂, HO₂CCO, 168°; H, Br, ZCOCO (Z = piperidine),
 189°; Cl, NO₂, ZCOCO, 174°; Cl, Br, ZCOCO, 178-5°; H, H,
 NO₂, ZCOCO, 186°. II, m. 241-2° (decomposition) (Me₂CO), and V,
 m. 231-2° (decomposition), were prepared by mixing p-methoxyphenacyl
 bromide at 40° with 2-benzyl- and 2-(p-chlorobenzyl)-pyridine,
 resp.
 IT 906-21-8, Pyridinium, 2-(p-chlorobenzyl)-1-(p-methoxyphenacyl)-,
 bromide 913-62-2, 3-Indolizineglyoxylic acid, 2-(p-nitrophenyl)-1-phenyl-,
 ethyl ester 915-43-5, Piperidine, 1-[[2-(p-nitrophenyl)-1-phenyl-3-indoliziny]glyoxyloyl]- 915-64-0
 , Piperidine, 1-[[1-(p-chlorophenyl)-2-(p-nitrophenyl)-3-
 indoliziny]glyoxyloyl]- 981-89-5, 3-Indolizineglyoxylic acid,
 2-(p-bromophenyl)-1-(p-chlorophenyl)- 986-28-7,
 3-Indolizineglyoxylic acid, 2-(p-bromophenyl)-1-(p-chlorophenyl)-, ethyl
 ester 986-29-8, 3-Indolizineglyoxylic acid, 1-(p-chlorophenyl)-2-
 (p-nitrophenyl)- 988-36-3, Piperidine, 1-[[2-(p-bromophenyl)-1-
 phenyl-3-indoliziny]glyoxyloyl]- 1047-62-7, Pyridinium,
 2-benzyl-1-(p-methoxyphenacyl)-, bromide 1056-78-6,
 3-Indolizineglyoxylic acid, 2-(p-nitrophenyl)-1-phenyl- 1060-65-7
 , 3-Indolizineglyoxylic acid, 1-(p-chlorophenyl)-2-(p-nitrophenyl)-,
 ethyl
 ester 1061-71-8, Piperidine, 1-[[2-(p-bromophenyl)-1-(p-

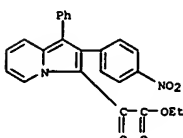
L15 ANSWER 96 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 chlorophenyl)-3-indoliziny]glyoxyloyl]- 1105-21-1,
 3-Indolizineglyoxylic acid, 2-(p-bromophenyl)-1-phenyl-, ethyl ester
 (prepn. of)

RN 906-21-8 CAPLUS
 CN Pyridinium, 2-(p-chlorobenzyl)-1-(p-methoxyphenacyl)-, bromide (8CI) (CA
 INDEX NAME)

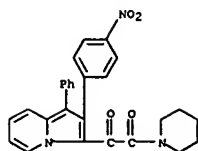


● Br⁻

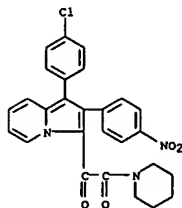
RN 913-62-2 CAPLUS
 CN 3-Indolizineglyoxylic acid, 2-(p-nitrophenyl)-1-phenyl-, ethyl ester
 (7CI,
 8CI) (CA INDEX NAME)



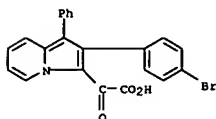
RN 915-43-5 CAPLUS
 CN Piperidine, 1-[[2-(p-nitrophenyl)-1-phenyl-3-indoliziny]glyoxyloyl]-
 (7CI, 8CI) (CA INDEX NAME)



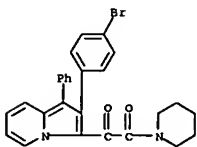
RN 915-64-0 CAPLUS
CN Piperidine, 1-([1-(p-chlorophenyl)-2-(p-nitrophenyl)-3-indoliziny]glyoxyloyl)- (7CI, 8CI) (CA INDEX NAME)



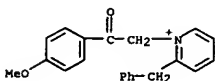
RN 981-89-5 CAPLUS
CN 3-Indolizineglyoxylic acid, 2-(p-bromophenyl)-1-phenyl- (7CI, 8CI) (CA INDEX NAME)



RN 983-41-5 CAPLUS
CN 3-Indolizineglyoxylic acid, 2-(p-bromophenyl)-1-(p-chlorophenyl)- (7CI, 8CI) (CA INDEX NAME)

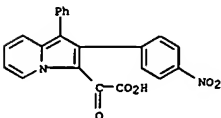


RN 1047-62-7 CAPLUS
CN Pyridinium, 2-benzyl-1-(p-methoxyphenacyl)-, bromide (8CI) (CA INDEX NAME)

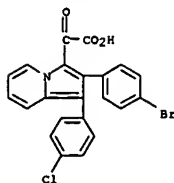


● Br⁻

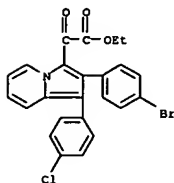
RN 1056-78-6 CAPLUS
CN 3-Indolizineglyoxylic acid, 2-(p-nitrophenyl)-1-phenyl- (7CI, 8CI) (CA INDEX NAME)



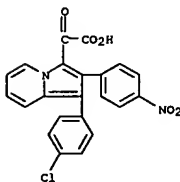
RN 1060-65-7 CAPLUS
CN 3-Indolizineglyoxylic acid, 1-(p-chlorophenyl)-2-(p-nitrophenyl)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



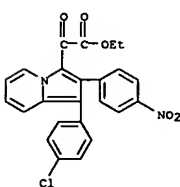
RN 986-28-7 CAPLUS
CN 3-Indolizineglyoxylic acid, 2-(p-bromophenyl)-1-(p-chlorophenyl)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



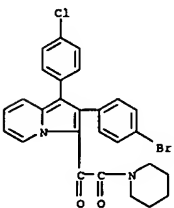
RN 986-29-8 CAPLUS
CN 3-Indolizineglyoxylic acid, 1-(p-chlorophenyl)-2-(p-nitrophenyl)- (7CI, 8CI) (CA INDEX NAME)



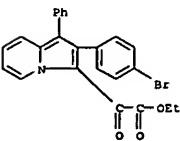
RN 988-36-3 CAPLUS
CN Piperidine, 1-([2-(p-bromophenyl)-1-phenyl-3-indoliziny]glyoxyloyl)- (7CI, 8CI) (CA INDEX NAME)



RN 1061-71-8 CAPLUS
CN Piperidine, 1-([2-(p-bromophenyl)-1-(p-chlorophenyl)-3-indoliziny]glyoxyloyl)- (7CI, 8CI) (CA INDEX NAME)

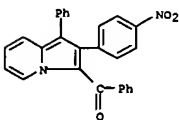


RN 1105-21-1 CAPLUS
CN 3-Indolizineglyoxylic acid, 2-(p-bromophenyl)-1-phenyl-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

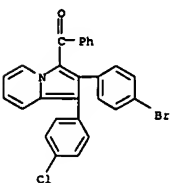


L15 ANSWER 97 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1964:3091 CAPLUS
 DOCUMENT NUMBER: 60:3091
 ORIGINAL REFERENCE NO.: 60:501b-g
 TITLE: Arylindolizines. I. Synthesis and properties of some phenylindolizines
 AUTHOR(S): Venturella, Vincent S.
 CORPORATE SOURCE: Abbott Lab., North Chicago
 SOURCE: Journal of Pharmaceutical Sciences (1963), 52(9), 868-71
 CODEN: JPMSAE; ISSN: 0022-3549
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): CASREACT 60:3091
 GI For diagram(s), see printed CA Issue.
 AB The method of Chichibabin (CA 22, 79) is used to prepare a number of aromatically substituted indolizines for possible psychotropic activity. The appropriate α -bromoacetophenone and 3 equivs. 2-benzylpyridine was heated to the required temperature on a water bath with constant agitation until solidification occurred. After cooling 2 days, the solid was leached with MeOH or EtOH and recryst. to give the following benzyl-N-phenacylpyridinium bromides (I) [R, R', R'', condensation time (min.), temperature, recrystn. solvent, & yield, and m.p. given]: H, Br, H, 20, 40°, H₂O, 54, 236-8° (decomposition); Ph, H, H, 35, 60°, aqueous MeOH, 85, 211-12.5° (decomposition); Ph, H, H, 35, 60°, aqueous MeOH, 48, 248-51° (decomposition). When 2-(p-chlorobenzyl)pyridine was used some spontaneous cyclization of the intermediate I occurred and these were not purified. The following II were prepared by stirring and refluxing I with saturated NaHCO₃ in MeOH (20 g./500 ml.) JR, R', R'', reflux time (hrs.) recrystn. solvent, & yield, and m.p. given]: H, Br, H, 3, aqueous MeOH, 89, 138-9.5°; H, NO₂, H, 2, Me₂CO, 94, 166-7° (decomposition); Ph, H, H, 2, EtOH, 93, 196-7° (decomposition); H, Br, Cl (III), 5, Me₂CO-H₂O, 63, 178-80° (decomposition); H, NO₂, Cl (IV), 7, Me₂CO-H₂O, 49, 214-16°, Ph, H, Cl (V), 8, Me₂CO-H₂O, 30, 195-6°. Yields of III, IV, and V were based on starting acetophenone. Electrophilic reagents gave rise to 1-substituted indolizines. Thus, 10 ml. BrCl and 4.5 g. II (R = R' = H, R'' = Br) was stirred at 40° for 30 min., diluted with 50 ml. benzene, kept 60 hrs., refluxed 1 hr., then cooled and treated with 60 ml. 40% aqueous NaOH. Evaporation of the washed benzene layers and crystallization from EtOH gave 68% II (R = Br, R' = Br, R'' = H), green needles, m. 196-8°. The dinitrophenylhydrazones (DNP) derivative, formed slowly and in low yield, m. 140-2° (95% EtOH). Similarly prepared were II (R = Br, R' = Br, R'' = Cl) (70%), m. 235-7° (Me₂CO) [DNP derivative m. 185-7° (70% EtOH)], and II (R = Br, R' = NO₂, R'' = H) (53%), m. 253-7° [DNP derivative m. 198-201° (decomposition) (EtOH)]. Reduction of 10 g. II (R = H, R' = NO₂, R'' = H) in 28 g. concentrated HCl and 80 ml. H₂O with 0.124 mole Sn at 60° over 1.5 hrs. gave 71% II (R = H, R' = NH₂, R'' = H), m. 153-4.5° (aqueous Me₂CO). Similarly was prepared II (R = H, R' = NH₂, R'' = Cl), m. 165-7° (49%) (EtOH-H₂O).
 IT 100627-91-6, Pyridinium, 2-benzyl-1-(p-nitrophenacyl)-, bromide
 100627-95-0, Pyridinium, 2-benzyl-1-(p-bromophenacyl)-, bromide
 102214-02-8, Ketone, 2-(p-bromophenyl)-1-phenyl-3-indolizinyloxy
 102214-07-3, Ketone, 2-(p-nitrophenyl)-1-phenyl-3-indolizinyloxy

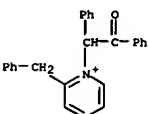
L15 ANSWER 97 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



RN 102290-67-5 CAPLUS
 CN Ketone, 2-(p-bromophenyl)-1-(p-chlorophenyl)-3-indolizinyloxy (7CI) (CA INDEX NAME)

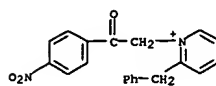


RN 104424-96-6 CAPLUS
 CN 2-Benzyl-1-(α -phenylphenacyl)pyridinium bromide (7CI) (CA INDEX NAME)



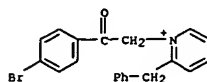
● Br⁻

L15 ANSWER 97 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 indolizinyloxy 102290-67-5, Ketone, 2-(p-bromophenyl)-1-(p-chlorophenyl)-3-indolizinyloxy phenyl 104424-96-6, Pyridinium, 2-benzyl-1-(α -phenylphenacyl)-, bromide (prepn. of)
 RN 100627-91-6 CAPLUS
 CN 2-Benzyl-1-(p-nitrophenacyl)pyridinium bromide (7CI) (CA INDEX NAME)



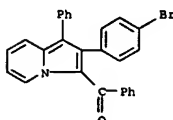
● Br⁻

RN 100627-95-0 CAPLUS
 CN 2-Benzyl-1-(p-bromophenacyl)pyridinium bromide (7CI) (CA INDEX NAME)



● Br⁻

RN 102214-02-8 CAPLUS
 CN Ketone, 2-(p-bromophenyl)-1-phenyl-3-indolizinyloxy phenyl (7CI) (CA INDEX NAME)



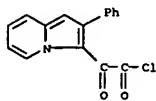
RN 102214-07-3 CAPLUS
 CN Ketone, 2-(p-nitrophenyl)-1-phenyl-3-indolizinyloxy phenyl (7CI) (CA INDEX NAME)

L15 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1959:67723 CAPLUS
 DOCUMENT NUMBER: 53:67723
 ORIGINAL REFERENCE NO.: 53:12289c-1
 TITLE: Aminoalkylpyrrocolines
 AUTHOR(S): Ames, D. E.; Grey, T. F.; Jones, W. A.
 CORPORATE SOURCE: Parke, Davis & Co., Ltd., Hounslow, UK
 SOURCE: Journal of the Chemical Society (1959) 620-2
 CODEN: JCSOAJ; ISSN: 0368-1769
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): CASREACT 53:67723
 AB (COC) 2 (25 g.) added gradually to 30 g. 2-phenylpyrrocoline (Borrows, et al., C.A. 41, 1656b) in 50 cc. Et₂O and 300 cc. C₆H₆, kept 4 hrs. at room temperature, the precipitate filtered off, and recrystd. from C₆H₆-petr. ether gave 75%
 2-phenyl-3-pyrrocolinyloxyethyl chloride (I), m. 110-14° (decomposition). Me₂NH passed into 15 g. I in 250 cc. C₆H₆ with stirring and cooling, the mixture kept 2 hrs. at room temperature, the precipitate filtered off, taken up in 100 cc. CHCl₃, the solution washed with 2N aqueous NaOH and H₂O, dried, evaporated, and the residue recrystd. from MeOCH₂CH₂OH gave 11 g. N,N-dimethyl-2-phenyl-3-pyrrocolinyloxyethylamide (II), m. 196-200°, 1 (EtOH) 2350 (e 22,600), 2650 (e 16,900), and 3810 A. (e 17,400). Similarly was prepared 2-phenyl-3-pyrrocolinyloxyethylamide, m. 178-81° (EtOAc). II (4.6 g.) in 100 cc. dry tetrahydrofuran (III) reduced by adding gradually to 2 g. LiAlH₄ in 100 cc. III at room temperature gave 0.25 g. 3-(2-dimethylamino-1-hydroxyethyl)-2-phenylpyrrocoline, m. 112-15° (MeOH). Et 3-(2-pyridyl)propionate (Clemo, et al., C.A. 30, 18018) (10 g.) and 11.1 g. BrCH₂Br (IV) in 25 cc. Me₂CO set aside 1 hr., refluxed 1.5 hrs., cooled, and the product crystallized from EtAc-EtOH gave 2-(2-carbethoxyethyl)-1-phenacylpyridinium bromide (V), m. 154-5°. Efforts to cyclize V with aqueous NaHCO₃ were unsuccessful. 3-(2-Pyridyl)propionate (8.2 g.) and 11 g. IV in 150 cc. EtAc refluxed 8.5 hrs., the supernatant liquor decanted from the gummy residue (VII), VI boiled with 100 cc. H₂O, the hot aqueous extract filtered (C); 40 g. NaHCO₃ added to the filtrate, and the mixture cooled gave 3.8 g. 2-phenyl-1-pyrrocolinyloxyethylamide (VIII), m. 168-70° (EtAc). VII (2.8 g.) reduced with 1.0 g. LiAlH₄ in 100 cc. Et₂O (6 hrs. Soxhlet extraction) and the product treated with MeOH-picric acid gave 1-(2-aminoethyl)-2-phenylpyrrocoline dipicrate, m. 135-6° (aqueous EtOH). KOH (48 g.) in 630 cc. PhCH₂OH and 130 cc. PhMe refluxed until all H₂O was removed (Dean-Stark apparatus), 48 g. 4-chloro-2,6-dimethylpyridine added, the mixture heated 2 hrs. at 210° (bath temperature), the solution cooled, poured into H₂O, extracted with EtOAc, and the extract fractionated gave 4-benzoyloxy analog (VIII), b.p. 130°, n_D 1.5653. VIII (15 g.) and 14.5 g. IV in 75 cc. BuOH kept overnight at room temperature, heated 5 hrs. on a steam bath, evaporated in vacuo, the gum triturated with Me₂CO, the solid (2.7 g.) collected, and recrystd. from EtOH gave 4-hydroxy-2,6-dimethyl-1-phenacylpyridinium bromide, (IX), m. 214-15°; evaporation off the Me₂CO

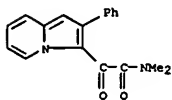
L15 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 filtrate gave a gum (X) from which the benzyloxy compd. could not be isolated. IX warmed with aq. NaHCO₃, cooled, the ppt. filtered off, and recrystd. from C₆H₆-petr. ether gave 2,6-dimethyl-1-phenacyl-4-pyridone, m. 103-4°, λ (EtOH) 2450 Å. (ε 14,200). X boiled with 300 cc. H₂O while 35 g. Na₂CO₃ was added in portions, cooled, extd. with Et₂O, the exts. washed with H₂O, dried, evapd., and the residue triturated with C₆H₆-petr. ether gave 0.4 g. 7-benzyloxy-2-phenylpyrrocoline (XI), on recrystn. m. 152-3°, λ (EtOH) 2600 Å. (ε 27,100). The low yield of XI prevented its use in further synthesis.

IT 101081-39-4, 3-Indolizineglyoxyloyl chloride, 2-phenyl-
 101731-37-7, 3-Indolizineglyoxylamide, N,N-dimethyl-2-phenyl-
 102016-11-5, 3-Indolizinemethanol, α-(dimethylaminomethyl)-2-phenyl- 109597-86-6, Pyridinium, 4-hydroxy-2,6-dimethyl-1-phenacyl-, bromide 109599-67-9, Pyridinium, 2-(2-carboxyethyl)-1-phenacyl-, bromide, ethyl ester 856783-43-2, 3-Indolizineglyoxylamide, 2-phenyl- (preparation of)

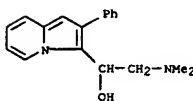
RN 101081-39-4 CAPLUS
 CN 3-Indolizineglyoxyloyl chloride, 2-phenyl- (6CI) (CA INDEX NAME)



RN 101731-37-7 CAPLUS
 CN 3-Indolizineglyoxylamide, N,N-dimethyl-2-phenyl- (6CI) (CA INDEX NAME)

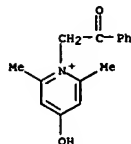


RN 102016-11-5 CAPLUS
 CN 3-Indolizinemethanol, α-(dimethylaminomethyl)-2-phenyl- (6CI) (CA INDEX NAME)



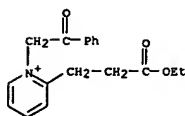
RN 109597-86-6 CAPLUS
 CN 4-Hydroxy-2,6-dimethyl-1-phenacylpyridinium bromide (6CI) (CA INDEX NAME)

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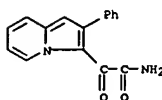
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RN 109599-67-9 CAPLUS
 CN 2-(2-Carboxyethyl)-1-phenacylpyridinium bromide, ethyl ester (6CI) (CA INDEX NAME)



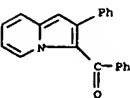
● Br⁻

RN 856783-43-2 CAPLUS
 CN 3-Indolizineglyoxylamide, 2-phenyl- (6CI) (CA INDEX NAME)



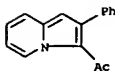
L15 ANSWER 99 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1947:29275 CAPLUS
 DOCUMENT NUMBER: 41:29275
 ORIGINAL REFERENCE NO.: 41:5879h-1,5880a-b
 TITLE: Pyrrocolines. V. The action of Grignard reagents and of iodine on 3-acetyl-2-phenylpyrrocoline
 AUTHOR(S): Borrows, E. T.; Holland, D. O.
 CORPORATE SOURCE: Battersea Polytech., London
 SOURCE: Journal of the Chemical Society (1947) 670-2
 CODEN: JCSOA9; ISSN: 0368-1769
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): CASREACT 41:29275
 AB cf. C.A. 41, 1659a. 3-Acetyl-2-phenylpyrrocoline (I) (8 g.) in 25 cc. ether, added dropwise to 1.5 mols. EtMgBr in ether and the mixture stirred an addnl. 25 min., gives 13.44 g. of a buff solid (II), C₁₈H₁₈ONBrMg; the residue from the filtrate on hydrolysis gives 0.74 g. 2-phenylpyrrocoline (III) and a trace of EtAc; II on decomposition with H₂O gives 62% III and EtAc.
 The EtOH solution with picric acid gives the picrate of III. PhMgBr, or PhLi gives results and yields parallel with those from EtMgBr.
 3-Benzoyl-2-phenylpyrrocoline (IV) with MeMgBr or EtMgBr forms metallic complexes which give no indication of the presence of C-Mg linkages and on hydrolysis give 74% IV and 15% III. These complexes are probably coordinate compds. of the type =COMgRX. I (2.35 g.) and 2.54 g. iodine in 60 cc. absolute EtOH, refluxed 1 hr., give 2.3 g. 1,3-diodo-2-phenylpyrrocoline-HI, iridescent bronze, m. 203° (decomposition); 0.5 g. I, 0.5 g. iodine, and 0.1 g. anhydrous AcOH in 15 cc. absolute EtOH, refluxed 2 hrs., give 63% of the 1-iodo derivative of I, yellow, m. 114-16°. 1,3-Diacetyl-2-phenylpyrrocoline does not react with iodine under these conditions. BzCH₂Br and 2-(2-hydroxypropyl)pyridine give 90% 1-phenacyl-2-(2-hydroxypropyl)pyridinium bromide, characterized as the chloroplatinate, buff, m. 225° (decomposition); alkali gives only III. 2-(2-Ketopropyl)pyridine and BzCH₂Br give only a small yield of quaternary product and the crude reaction mixture gives small quantities of III.
 IT 14759-45-6, Ketone, phenyl 2-phenyl-3-pyrrocolinyl
 38320-58-0, Ketone, methyl 2-phenyl-3-pyrrocolinyl
 189569-42-4, Pyrrocoline, 1,3-diacetyl-2-phenyl-
 855626-01-6, Ketone, 1-iodo-2-phenyl-3-pyrrocolinyl methyl (preparation of)

RN 14759-45-6 CAPLUS
 CN Methanone, phenyl(2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)

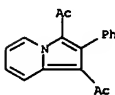


RN 38320-58-0 CAPLUS
 CN Ethanone, 1-(2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)

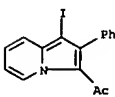
L15 ANSWER 99 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



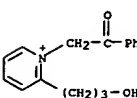
RN 189569-42-4 CAPLUS
 CN Ethanone, 1,1'-(2-phenyl-1,3-indolizinediyl)bis- (9CI) (CA INDEX NAME)



RN 855626-01-6 CAPLUS
 CN Ketone, 1-iodo-2-phenyl-3-pyrrocolinyl methyl (5CI) (CA INDEX NAME)



IT 710268-99-8, Pyridinium, 2-(3-hydroxypropyl)-1-phenacyl- (salts)
 RN 710268-99-8 CAPLUS
 CN Pyridinium, 2-(3-hydroxypropyl)-1-(2-oxo-2-phenylethyl)- (9CI) (CA INDEX NAME)



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